

***In the Drawings:***

Applicant respectfully notes that the previous drawing amendments to the extent that they present any new information are hereby withdrawn. Applicant hereby presents replacement drawings of Figures 3a, 3b, 3c, 9, 10, 11, 12 and 13 adopting previous requirements of the Examiner made prior to the filing date of the Final Office Action.

***Remarks***

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 20-88 remain pending and claims 20, 24, 30, 34, 38, 42, 46, 50, 54, 62, 68, 71, 74, 77, 82, 87, 88, being the independent claims. Applicant seeks to amend claims 20-26 and 28-88. The amendments are believed to add NO new matter and are being made to place the application in better position for appeal and are believed to distinguish all the applied references. Entry of the foregoing amendments are respectfully requested. Applicant first respectfully requests withdrawal of the finality of the pending action. Applicant respectfully asserts that the above amendments are only necessitated by Examiner's new grounds of rejection and finality would seem improper. The above amendments are not intended to raise new issues but are only intended to place the claims in a better position for appeal.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Based on the above Amendment and the following Remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

***Replacement Specification***

Applicant provides herewith a copy of the original Specification in double-spaced form with line numbers. No new matter is added.

***Acknowledgement of Allowed Subject Matter***

Applicant acknowledges the allowance of claims 76 and 86.

***Objection to the Specification***

Paragraph 1 on Fig. 12 has been amended to note the inherent "washer shape" of reference numerals 3 and 5, as would be apparent to those skilled in the art.

***Rejections under 35 U.S.C. § 112, first paragraph***

Claims 68, 71, 74, 82 have been amended to overcome the Examiner's rejection. Support is provided in the Specification at page 12, first paragraph and in the summary, and the language of displaying a graphical user interface would be inherently understood from the supported term "touch-screen" as would be apparent to those skilled in the art.

Regarding the Examiner's rejection of claims 69, 72, 75, 78, 83, Claims 68, 71, 74, 82 have been amended to overcome the Examiner's rejection. Support is provided in the Specification at page 12, first paragraph and in the summary, and the language of displaying a graphical user interface would be inherently understood from the supported term "touch-screen" as would be apparent to those skilled in the art.

Regarding 54 and 77, the claims have been amended in accordance with original Fig. 3A.

Regarding 62 and 82, the claims have been amended in accordance with original Fig. 3A.

Regarding paragraph 5 of the office action, Applicant respectfully notes the attached replacement. Specification is a double spaced, line numbered version of the originally filed Specification. No new matter is believed added.

Regarding paragraph 6 of the office action, the claims have been amended accordingly.

***Rejections under 35 U.S.C. § 102***

In paragraph 8 of the office action, The Examiner rejects claims 20, 87, 88 as anticipated by Kazarian (5,949,401). Applicant respectfully disagrees.

First, Kazarian's trackball 68a is not a key. Second, Kazarian's macro key 68b is not "substantially washer-shaped" as required by all the independent claims, as amended. Third, Kazarian's macro key is not "substantially circular".

Thus claims 20, 87 and 88 are patentable. Also, dependent claims 21-23 are patentable for at least the above reasons as dependent on allowable independent claim 20.

Also, claim 22, as amended, is further patentable for including a useful advantageous feature described on page 6 paragraph 4, lines 9-20, and as shown in Figs. 2, ref. numerals 7, 8, 9, 10, 11, 13 and 14.

In paragraph 9 of the office action, the Examiner rejects claims 20, 87, 88 as anticipated by Retter (4,913,573). Applicant respectfully disagrees.

Retter appears to set fourth a computer typewriter keyboard having cavities containing a plurality of push button key switches.

Rapid or course movement cursor keys 22 of Retter are not "substantially washer-shaped" and are not "substantially circular". The language "washer-shaped" is clearly supported as

inherent in Applicant's Figs. 1a, 1b, 1c, 1d, and 3d. Retter does not teach or suggest a substantially washer-shaped, substantially circular key.

For at least these reasons claims 20, 23, 87 and 88 are patentable over Retter.

In paragraph 10 of the office action, the Examiner rejects claims 20, 87, 88 as anticipated by Nagai(5,404,152). Applicant respectfully disagrees.

Rotatable dial 3 and rotatable dial 4 are not equivalent to the key-surround of the present invention which is a "non-rotatable key" in the context of Nagai, as shown in Fig. 5 and Fig. 10 of Nagai. Nagai does not teach or suggest a substantially washer-shaped, substantially circular key that is "non-rotatable".

For at least these reasons claims 20, 87 and 88 are patentable over Nagai.

In paragraph 11 of the office action, the Examiner rejects claims 20, 87, 88 as anticipated by Leu et al(6,084,576). Applicant respectfully disagrees.

Leu appears to set forth an ergonomic keyboard with keys that conform in shape and placement to the parts of the human hand.

Leu does not teach or suggest a "substantially washer shaped", "substantially circular" key of claims 20, 87 or 88.

Moreover, Leu does not make up for the shortcomings of Kazarian, Retter, or Nagai. Since Leu, Kazarian, Retter, and Nagai, alone or in combination do not teach or suggest all the features of claims 20, 87, and 88, these claims and all their dependent claims are therefore patentable over these applied references.

***Rejections under 35 U.S.C. § 103***

Regarding paragraph 13, Examiner asserts claims 47, 49-53 are unpatentable as obvious over Leu et al. (Leu) in view of Ben-Arie.

Leu appears to set forth an ergonomic keyboard with keys that conform in shape and placement to the parts of the human hand.

Ben-Arie appears to set forth a data entry system having a set of two multi-position switches or control knobs which are switchable in combination to produce output.

Claim 47 is patentable because, as amended, claim 47 includes a "washer -shaped" key. Leu et al and Ben-Arie, alone or in combination, do not teach or suggest a washer-shaped key of claim 47. Further, Ben-Arie and Leu et al, alone or in combination do not teach or suggest a middle key. For at least these reasons claims 47, 49-53 are patentable.

Further the Examiner fails to show a proper motivation to combine the references. Thus, the Examiner fails to prove her prima facie case of obviousness.

Regarding paragraph 14, Examiner asserts claims 21-29 unpatentable as obvious over Kazarian(5,848,401) in view of Ben-Arie(5,408,621).

Kazarian appears to set forth a two-handed, hand-held apparatus and method for inputting data and controls.

Ben-Arie appears to set forth a data entry system having a set of two multi-position switches or control knobs which are switchable in combination to produce output.

Claims 21-29 are patentable because, as amended, claims 21-29 teach or suggest a "washer-shape". This feature is not shown in Kazarian or Ben-Arie, alone or in combination. Further, Ben-Arie and Kazarian, alone or in combination do not teach or suggest a middle key. For at least these reasons claims 21-29 are patentable.

Further the Examiner fails to show a proper motivation to combine the references. Thus, the Examiner fails to prove her prima facie case of obviousness.

Regarding paragraph 15, Examiner asserts claims 34-45 as unpatentable as obvious over Nagai(5,404,152) in view of Ben-Arie(5,408,621).

Nagai appears to set forth a pointing device consisting of a switch button, a first dial disposed around the switch, a second dial disposed around the first dial and a body.

Ben-Arie appears to set forth a data entry system having a set of two multi-position switches or control knobs which are switchable in combination to produce output.

Claims 34-45 are patentable because, as amended, claims 34-45 teach or suggest a “non-rotatable” , “substantially washer-shaped” key. These features are not shown in Nagai or Ben-Arie, alone or in combination. Further, Ben-Arie and Nagai, alone or in combination do not teach or suggest a middle key. For at least these reasons claims 34-45 are patentable.

Further the Examiner fails to show a proper motivation to combine the references. Thus, the Examiner fails to prove her prima facie case of obviousness.

Regarding paragraph 16, Examiner asserts claims 68-73 as unpatentable as obvious over Kazarian(5,949,401) in view of Dreher(4,551,717) and Shimauchi(4,812,833).

Kazarian appears to set forth a two-handed, hand-held apparatus and method for inputting data and controls.

Dreher appears to set forth a programmable function key having liquid crystal displays which indicate the function of the key.

Shimauchi appears to set forth a touch panel input device with sensors that detect the operator's approaching finger and which displays cursor at point of detection.

Claims 68-73 are patentable because, as amended, claims 68-73 teach or suggest a “substantially circular”, “substantially washer-shaped” key. These features are not shown in Kazarian, Dreher or Shimauchi, alone or in combination. Further, Kazarian, Dreher and



Shimauchi, alone or in combination do not teach or suggest a middle key. For at least these reasons claims 68-73 are patentable.

Further the Examiner fails to show a proper motivation to combine the references. Thus, the Examiner fails to prove her prima facie case of obviousness.

Regarding paragraph 17, Examiner asserts claims 74-76 as unpatentable as obvious over Leu et al(6,084,576) in view of Dreher (4,551,717) and Shimauchi(4,812,833).

Leu et al appear to set forth an ergonomic keyboard with keys that conform in shape and placement to the parts of the human hand.

Dreher appears to set forth a programmable function key having liquid crystal displays which indicate the function of the key.

Shimauchi appears to set forth a touch panel input device with sensors that detect the operator's approaching finger and which displays cursor at point of detection.

Claims 74-76 are patentable because, as amended, claims 74-76 teach or suggest a "substantially circular", "substantially washer-shaped" key. These features are not shown in Leu et al, Dreher or Shimauchi, alone or in combination. Further, Leu et al, Dreher or Shimauchi, alone or in combination do not teach or suggest a middle key. For at least these reasons claims 74-76 are patentable.

Further the Examiner fails to show a proper motivation to combine the references. Thus, the Examiner fails to prove her prima facie case of obviousness.

*Other Matters*

*Conclusion*

Since all the Examiner's objections and rejections are overcome, Applicant asserts that all the claims are in condition for allowance. Notice to that effect is respectfully requested. All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is hereby invited to telephone the undersigned at the number provided.

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Appl. No. 09/835,884

Prompt and favorable consideration of this Amendment is respectfully requested.

Respectfully submitted,

Date: \_\_\_\_\_

\_\_\_\_\_  
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**Version with markings to show changes made**

***In the Specification:***

Kindly amend lines 3-4 of page 1 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 1 represents a key-surround data input module keyboard or nesting module embodying principles of the present invention.

Kindly amend lines 4-8 of page 1 of the Description, as would be apparent to those skilled in the art, to read as follows:

It is shown from a top plan view to have a middle key 1 at its focus, a circular washer-shaped non-rotationalstationary key-surround key, and an optional, in this case circular, bordering wall 5 which here separates the middle key from its most adjacent key-surround key 2. In other embodiments, the key surrounding key need not be concentric nor more than substantially circular. Also, the key-surround key also need noteirular nor completely surround the middle key.

Kindly amend lines 10-14 of Page 1 of the Description, as would be apparent to those skilled in the art, to read as follows:

Dotted line 3 and all other such lines of this key-surround module illustration represent either a dividing line between key parts or a dividing line between zones of actuating ~~constructs~~ contact points depending upon the embodiment. Space 4 may therefore represent a key part in a key-arrangement key-surround key or an area of multiple actuating ~~constructs~~ contact points in a floating pivotable key-surround key.

Kindly amend lines 16-22 of page 1 of the Description, as would be apparent to those skilled in the art, to read as follows:

The Key-Surround data input Mmodule keyboard inputting device is not intended to be limited to, for example, a Qwerty keyboard embodiment whereas there are other embodiments such as Stenographic TM keyboards, musical keyboards and other inputting devices for other equipment which contain inputting values which can be inputted by the key-surround module inputting device. In the case of Figure 2, however, middle key 6 has the key-value for "J", with a circular washer-shaped key-surround key having the values, for keys numbered 7 through 11, for "U", "Y", "H", "N", and "M" respectively.

Kindly amend the first paragraph on page 1 at line 14 of the Description, as would be apparent to those skilled in the art, with the following additional line found in applicant's original specification:

This two-dimensional illustration is also applicable to any touch sensitive or touch screen display displaying a graphical user interface of a key-surround data input module keyboard inputting device.

Kindly amend lines 22-23 of page 1 through line 2 of page 2 of the Description, as would be apparent to those skilled in the art, to read as follows:

Whereas this figure depicts a top view, these key-values may be for parts of a key-arrangement key-surround key as well as for areas of multiple actuating ~~constructs~~ contact points of a floating pivotable key-surround key.

Kindly amend lines 8-14 of page 2 of the Description, as would be apparent to those skilled in the art, to read as follows consistent with applicant's original disclosure, to read as follows:

Figures 3a, 3b and 3c represent several ~~possible varieties~~ embodiments of key-surround ~~inputting devices~~ modules. Figure 31 illustrates a side view of a key-arrangement key-surround module where top and bottom actuating ~~constructs~~ contact point parts 18 and 19 are held apart by the flexible exterior 17. Dotted lines such as that of 20 here illustrate connections of such flexible material. Top actuating contant point part 18 is attached to the inside top of the key-surround key at 23 and actuating ~~construct~~ contact point bottom is secured to the base of the key-

surround key. Output sSignal is made once the exterior above the appropriate actuating construct, in this case at 23, is pressed. Output is achieved in all key-surround keys of all embodiments of the key-surround data input module keyboard inputting device by the user's pressing down upon key-surround keys and not by rotating said key-surround keys.

Kindly amend lines 15-20 of page 2 of the Description, as would be apparent to those skilled in the art, to read as follows consistent with applicant's original disclosure, to read as follows:

~~Actuating eonstruet~~scontact points may be either, in this case, capacitive or hard-contact. The signal circuitry is illustrated as 24 along the circumference and perpendicular to the circumference toward the center of the key-surround key. Middle key 21 has one actuating ~~eonstruet~~contact point beneath it at 22.

~~Washer 25 is attached to the bottom of the key-surround module having a protrusion 26 which fits into groove 28 of base 27. The groove allows a limited rotation of the key-surround key in relation to the middle key.~~

Kindly amend lines 22-23 of page 2 of the Description, as as would be apparent to those skilled in the art, to read as follows:

Middle key 29 with actuating ~~construct~~ contact point 31, either capacitive or hard-contact, nests within key-arrangement key surround key 30.

Kindly amend lines 4-11 of page 3 of the description, as would be apparent to those skilled in the art, to read as follows:

Key 33 has beneath it one actuating ~~construct~~ contact point 34 which can be either capacitive or hard-contact. This key-arrangement key-surround key need not have any dividers between its individual inputting parts for its shape and its actuating ~~construct~~ contact point 34 keep it in place and keep it from interfering with the other key parts of the key-surround key. It is however possible to have a wall 35 as in this case. Output ~~S~~signals are carried through circuits like that of 35, toward the center of the key-surround key.

~~Washer 37 connected to the bottom of key-surround module 30 with protrusion 38 fits into groove 40 of base 39, and, thereby allows limited rotation of key-surround key 30.~~

Kindly amend lines 20-23 of page 3 through lines 2-4 of page 4 of the Description, as would be apparent to those skilled in the art, to read as follows:

When the key-surround key is pressed, nodes placeds under the top of key-surround key 42 and along the circumference of the key-surround key like that of 47 come into contact with actuating contact point~~s~~constructs like that of 48 causing an output signal to be made.



Said actuating ~~constructs~~ contact points can be capacitive or hard-contact and are secured to the bottom 51 of the key-surround key.

~~Washer 52 attached to bottom of the key-surround module has a protrusion 53 which fits into groove 55 on base washer 54 thereby permitting limited rotation of the key-surround key.~~

Kindly amend lines 12-14 of page 3 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 3c illustrates a key-surround data input module inputting device embodiment which in this case has a trackball cursor navigating device as its middle key surrounded by a floating pivotable key-surround key.

Kindly amend lines 8-11 of page 4 of the Description, as would be apparent to those skilled in the art, to read as follows:

Output Signal carriers such as that of 50 transport signals along bottom 51 towards the center of the key-surround key.

Figure 4 illustrates a key-surround data input module keyboard inputting device 56 having a middle key 57, and a plurality of circular, washer-shaped key surrounds keys 58 and 60.

Kindly amend lines 14-15 of page 4 of the Description , Lines 14-15

The key-surround data input module keyboard inputting device is not limited to these key shapes and heights.

Kindly amend lines 3-4 of page 5 of the Descriptions, as would be apparent to those skilled in the art, to read as follows:

Key-surround data input module keyboard inputting device 56 is held in track 61 by its central peg 63 and peg support 64.

Kindly amend lines 11-12 of page 5 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 5 illustrates a key-surround data input module keyboard inputting device having a middle key-67, a circular washer-shaped first key-surround key 69, a second circular, washer-shaped key-surround key 71 and a substantially circular, substantially washer-shaped third key-surround key 73.

Kindly amend lines 19-21 of page 5 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 6 illustrates an embodiment of the key-surround data input module keyboard inputting device according to the present having a plurality of middle keys each having a plurality

of substantially circular, substantially washer-shaped and non-rotational stationary key-surround keys forming a series of nesting modules 75, 76, 77, 78, 79, 80, 81 and 82.

Kindly amend lines 16-18 of page 6 of the Description, as would be apparent to those skilled in the art, to read as follows:

To the left of line 86a is the left half of this embodiment of the key-surround data input module keyboard inputting device revealing actuating ~~constructs~~ contact points and their placements which are beneath the key tops of key surround modules 75, 76, 77 and 78.

Kindly amend lines 3-8 of page 8 of the Description, as would be apparent to those skilled in the art, to read as follows:

Key surround key modules 75, 76, 77, 78, 79, 80, 81 and 82 have one or more key-surround keys. In this depicted embodiment there are a plurality of such key-surround modules ~~inputting devices or nesting modules~~ which ~~in turn form another~~ the key-surround data input module keyboard inputting device. These ~~key-surround nesting modules inputting devices~~ are arranged in this case in a concave curved arrangement such that middle keys coincide with the curvature of the users finger tips at rest for greater comfort.

Kindly amend lines 1-3 of page 9 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 7 illustrates an embodiment of the key-surround data input module keyboard inputting device according to the present invention having a plurality of key-surround modules 132 and 133, each having a plurality of middle keys.

Kindly amend lines 17-19 of page 9 of the Description, as would be apparent to those skilled in the art, to read as follows:

At such lines it is possible to have separated keys, borders between keys or continuous surfaces with actuating ~~constructs~~contact points beneath which change in key-values at lines such as 141 (See Figures 3a to 3b).

Kindly amend line 2-5 of page 10 of the Description, as would be apparent to those skilled in the art, to read as follows:

Thus, said first key-surround base contains the actuating ~~constructs~~contact points for key-arrangement key-surround keys and floating pivotable key-surround keys. This key-surround contains a plurality of actuating ~~constructs~~contact points, either capacitive or hard-contact.

Kindly amend lines 7-17 of page 10 of the Description, as would be apparent to those skilled in the art, to read as follows:

Key-surround base 148 contains a plurality of actuating ~~constructs~~contact points such as that of 149 in groups ~~connected by circuitry such as 150~~. Key-surround base 155 contains a plurality of actuating ~~constructs~~contact points such as that of 156 in groups ~~connected by circuitry~~ 157. Said actuating ~~constructs~~contact points can be either hard-contact or capacitive. Such groups of actuating ~~constructs~~contact points share the same key-value and expand the area on such a key-surround ~~inputting device~~key where the user can input a certain key-value. A flexible part-tubular wall 151 surrounds the base for the floating pivotable key part extending around part of middle key area associated to middle key actuating ~~construct~~contact point 147 and extends around the entire base 155.

Kindly amend lines 3-15 of page 11 of the Description, as would be apparent to those skilled in the art, to read as follows:

The second key-surround key base 161 is a base with actuating ~~constructs~~contact points for a combination key-arrangement and floating pivotable surround key. Actuating ~~constructs~~contact points such as that of 167 of base 162 surround and in this case particularly surround key-surround base area 148. Circuit 169 connects all actuating ~~constructs~~contact points so that in this case each actuating ~~construct~~contact point of base 162 will signal the same key-

value. Base 162 is further divided into bases for key arrangement key-surround keyss having groups, in this case of two, four or three actuating ~~eonstruets~~contact points, each group having the same key value. The third key-surround base 163 of module 132 is a base for a key-arrangement key surround key having actuating ~~eonstruets~~contact points and partially surrounding said second key surround 161. All said actuating ~~eonstruets~~contact points being either hard-contact or capacitive.

Below key-surround module 132 there is in this case a nesting module 164 having a trackball cursor navigating device actuating ~~eonstruet~~contact point 166 and in this case two circular key-surround keys 82a and 82b.

Kindly amend lines 17-20 of page 11 of the Description, as would be apparent to those skilled in the art, to read as follows:

Oval key module 170 is centered below key-surround inputting modules 132 and 133 illustrated in part with key top and part without with underlying base part having a plurality of disbursed actuating ~~eonstruets~~contact points such as 172 which can be either capacitive or hard contact ~~-eonstruets~~contact points.

Kindlly amend ~~line~~line23 page 11 through~~2-~~ line 4 of page 12 of the Description, as would be apparent to those skilled in the art, to read as follows:

Actuating constructs such as that of 172 and similar actuating constructs may have the ~~inputting circuitry be~~ for the same key value so that the user may press any part of said key module in order to input the same value. It is possible also to place more than one key-value to these actuating ~~constructs~~ contact points which can either be capacitive or hard-contact ~~constructs~~ contact points.

Kindly amend lines 12-14 of page 12 of the Description, as would be apparent to those skilled in the art, to read as follows:

In other embodiments the number of keys, key shapes and placements of the key-surround data input module keyboard inputting device will vary.

Figure 8 illustrates a system of tracks which is beneath the surface of the key-surround data input module keyboard inputting device, and specifically, beneath key-~~modules~~ surround ~~inputting device~~ bases described above.

Kindly amend the second paragraph of page 13 at line 12 of the Description, as would be apparent to those skilled in the art, to read as follows:

A similar system of tracks may be utilized beneath these tracks so that groups of key-modules or nesting modules may be positionally displaced in unison.

Kindly amend lines 13-14 of page 13 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 9, labeled as "prior art" is a top view illustration of a conventional Qwerty inputting device having keys with key-values placed in the "Qwerty" scheme of key-value placement.

Kindly amend lines 3-4 of page 14 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 10, labeled "LCD Touch Sensitive Touch Screen Display" illustrates ~~a display screen having touch screen sensing elements and, in the alternative, an LCD diode-illuminated matrix display screen which is covered by~~ overlayed by a touch screen. Other kinds of displays and touch screen combinations may also be utilized without altering the spirit of the invention.

Kindly amend lines 5-11 of page 14 of the Description, as would be apparent to those skilled in the art, to read as follows:

~~In illustrating a~~ Figure 10 illustrates the touch sensitive touch screen display of this embodiment screen having an LCD matrix display depicting key-surround modules as a graphical user interface and a touch screen overlay. The depictions of key-surround modules 227, 228, 229, 230, 231, 232, 233, 234, 235 and single key-modules 236 and 237 serve in this touch



sensitive touch screen embodiment of the key-surround data input keyboard inputting device as a graphical user interface. Graphical user interfaces are screen depictions which bring forth an action with the user's, in this case touch, interaction.~~built-in touch sensing elements,~~ Figure 10 is divided into two halves separated at dotted line 238 for convenience. The ~~illustration~~ To the right of line 238 at 254 is an illustration ~~display of an embodiment of the touch sensitive touch screen display~~ key-surround inputting device as it would be seen by the user. To the left of line 238 is an illustration of the touch sensitive touch screen display~~key-surround inputting device display screen~~which is mounted on top of said LCD matrix display. This left side illustrates disproportionately enlarged~~depicts~~ touch sensing elements which are actually unseen conductive circuits which detect current changes at points of the user's touch, ~~which in one embodiment are built into the display regions.~~ touch sensing elements are here ~~disproportionately enlarged to show detail.~~ Differing diagonal and crossed lines distinguish the different parts of the graphical user interface key-modules. When the user touches the touch screen, the point of touch is processed in respect to its coordinates on the touch screen and with respect to the corresponding point coordinates of the LCD matrix display directly underneath and of identical surface area.

Kindly amend in deleting lines 9-16 of page 15 of the Description.:

~~On the left of dotted line 238 of Figure 10 this display embodiment is shown to have embedded touch sensing elements within its display screen at each of the key depictions of said~~

~~display inputting device. Touch sensing elements are conductive circuit elements and are embedded within the display panel in this particular embodiment. The display may be of a liquid crystal display or other conductive yet illuminated display. Touch sensing elements are best represented in drawing as perpendicularly overlapping circuitry for example in area 284, however, parallel lines are also used to illustrate such circuitry for clarity.~~

Kindly amend lines 21-22 on page 15 of the Description, as would be apparent to those skilled in the art, to read as follows:

This in turn partly surrounded by third key-surround key 266 divided into two areas of touch-circuitry.

Kindly amend lines 9-23 on page 16 through line 10 on page 17 of the Description, as would be apparent to those skilled in the art, to read as follows:

This middle key is completely surrounded by an oval display first key-surround key which has two areas of circuitry-embededness 270 and 270a, such that two key-values may be detected in these two areas of the same key-surround key. The second key-surround key 271 partially surrounds said first key-surround key and is embedded with one area of circuitry. Third key-surround key 271 partially surrounds said second key-surround key, and is likewise completely embedded with one area of touch sensing-circuitry. Key-surround module 230 has a display middle key 258 which consists of one circular area of

touch-circuitry. This middle key is surrounded by a first circular area key-surround key with several different areas of embedded touch circuits 273, 274, 275, 276 and 277 where each separate detection area holds a different key-value. The second key-surround key 278 of this display module partially surrounds said first key-surround and has two separate areas of circuitry-embeddedness. Third touch key-surround key 279 is also divided into two areas of touch-circuitry.

Below said four touch key-surround modules 227, 228, 229, 230 is displayed a touch nesting module 235 with a circular display cursor navigating center 280 having touch circuitry which can detect movements of touch or changing positions of touch. This middle key is surrounded by first touch circular key-surround key 281 having four areas of touch-circuitry, in turn completely surrounded by a second touch key-surround key having five areas of touch-circuitry. Displayed beneath and centered between key-surround modules 230 and 231 is an oval area 236 having one area of touch sensing-circuitry. Displayed beneath and centered between key-surround modules 230 and 231 is an oval area 236 having one area of touch sensing-circuitry. Background 283 can be without any touch-circuitry, may have circuitry which has a very low touch sensitivity, or it may have higher touch sensitivity possibly to alert the user if she is inputting out of key bounds.

Kindly amend lines 20-23 on page 17 through line 2 on page 18 of the Description, as would be apparent to those skilled in the art, to read as follows:

Secondly, the area to the left of dotted line 238 may also be described as being solely a touch screen layer with display shapes illuminating through and highlighting touch sensitive ~~circuitry areas~~. With such an interpretation, Figure 10 also serves as an illustration of two parts of a touch screen display system illustrating the display screen in half of the illustration to the right of dotted line 238, and the rest of same display screen, the left half covered by a separate touch screen area ~~having touch circuitry~~.

Kindly amend lines 5-8 of page 18 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 11 is divided into two halves separated at dotted line 287 at 300 illustrating a touch sensitive touch screen display having an LCD matrix display and a touch screen ~~a display screen having built-in touch sensing elements~~. The illustration to the right of line 287 is a ~~display embodiment of the key surround inputting device~~ the touch sensitive touch screen as it would be seen by the user.

Kindly amend lines 22 on page 18 through line 3 on page 19 of the Description, as would be apparent to those skilled in the art, to read as follows:

To the left of line 287 the illustration shows the touch sensing ~~circuitry as it embeds~~  
~~display key areas~~ of the present embodiment of the touch key-surround module inputting device.  
With regard to the depiction of key-surround module 285, depicted middle key areas 288, 289,  
390 and 291 are completely embedded with single circular areas of touch ~~circuitry~~.

Kindly amend lines 10-18 on page 19 of the Description, as would be apparent to those  
skilled in the art, to read as follows:

Below said touch module 285 is nesting module 305 which has as its middle key a cursor  
navigating touch key 306 having a circular area of touch sensing ~~circuitry which can detect~~  
movement of the user's touch or changes in placement of touch. This middle key has a first key-  
surround key 307 which is circular and has four areas of touch ~~circuitry~~. A second display key-  
surround key is divided into five areas of touch sensitive ~~circuitry and which surrounds said first~~  
key-surround key completely. Below and centered between display modules 285 and 286 is  
depicted touch key module 309 having one area which is embedded with one area of touch  
sensing ~~circuitry~~.

Kindly amend lines 20-21 of page 19 of the Description, as would be apparent to those  
skilled in the art, to read as follows:

Keys in other embodiments may be of different shapes than those ~~displayed~~ illustrated.

Kindly amend lines 3-124 of page 20 of the Description, as would be apparent to those skilled in the art, to read as follows:

Also the number of key-surrounds need not be as many nor be limited in number as those described in this illustration.~~embodiment~~.

Secondly, the area to the left of dotted line 287 may also be described as being solely a touch screen layer with display shapes illuminating through and highlighting touch sensitive ~~circuitry~~areas. With such interpretation, Figure 11 also serves as an illustration of two parts of a touch screen display system illustrating the display screen in half of the illustration to the right of dotted line 287, and the rest of same display screen, that which is to the left, covered by a separate touch screen ~~having touch circuitry~~. Thus, a second such embodiment may be described having a touch screen which covers a separate display underneath.

Kindly amend lines 13-22 of page 20 of the Description, as would be apparent to those skilled in the art, to read as follows:

Figure 12 illustrates a top view of ~~several embodiments discussed herein of the key-surround~~ data input module keyboard inputting device which ~~applies~~ may apply to various embodiments of ~~the either a three-dimensional or a two-dimensional key-surround module module~~ inputting device.

In terms of a three-dimensional inputting device, Figure 12 depicts a top view which has applicability to various embodiments of the key-surround data input module keyboard inputting device. The key-surround data input module keyboard inputting device of Figure 12 contains key-values of the conventional Qwerty keyboard placed so that Qwerty key relationships and positions are maintained. ~~Qwerty while such key values and inputting can be achieved on the~~ smaller surface area of the key-surround data input module keyboard inputting device.

Kindly amend line 23 of page 20 through line 17 of page 21 of the Description, as would be apparent to those skilled in the art, to read as follows:

Key-surround module 312 has the key-value for "A" at its middle key, a first key-surround key having the key-values for "Q", "Capslock" and "A", and, a second key-surround key having the key-values for "!", "1", "Esc", "Shift", "Fn" and "Ctrl" ~~and all Qwerty key values which are associated to inputting from said key value of "A" as rest position key key value.~~ Key surround module 313 has the key-value for "S" as its middle key, a first key-surround key having the key-values for "W" and "X", and, a second key-surround key having the key-values for "@", "2" and "Tab" ~~and all Qwerty key values which are associated to inputting from said key value of "S" at rest position key key value.~~ Key surround module 314 has the key-value for "D" at its middle key, a first key-surround key having key-values for "E" and "C", and, a second key-surround key having key-values for "#", "3" and "NumLock" ~~and all Qwerty key values which are associated to~~

inputting from said key-value of "D" as rest-position key-key-value. Key surround module 315 has the key-value for "F" at its middle key, a first key-surround key having the key-values for "R", "T", "G", "B" and "V", and, a second key-surround key having the key-values for "\$", "4", "%", and "5" and all Qwerty key-values which are associated to inputting from said key-value of "F" as rest-position key-key-value. Key surround module 316 has the key-value for "J" at its middle key, a first key-surround key having the key-values for "U", "Y", "H", "N" and "M", and, a second key-surround key having the key-values for "Backspace", "^", "6", "&", "7" and "Ins" and all Qwerty key-values which are associated to inputting from said key-value of "J" as rest-position key-key-value. Key surround module 317 has the key-value for "K" at its middle key, a first key-surround key having the key-values for "I", "<", and ",", and, a second key-surround key having the key-values for "\*", "8" and "Alt" and all Qwerty key-values which are associated to inputting from said key-value of "K" as rest-position key-key-value. Key surround module 318 has the key-value for "L" at its middle key, a first key-surround key having the key-values for "O", ">", ".", and, a second key-surround key having the key-values for "(", "9" and "Del" and all Qwerty key-values which are associated to inputting from said key-value of "L" as rest-position key-key-value. —Key surround module 319 has the key-value for ":", at its middle key, a first key-surround key having the key-values for "Ctrl", "P", "[", "]", "'", ":", "7" and "/", and, a second key-surround key having the key-values for ")", "0", "+", "=" and "Shift". In other embodiments the placements of key-values may be re-arranged to best suit the convenience of the



~~user, and all Qwerty key-values which are associated to inputting from said key-value of “.” as rest-position key-key-value.~~

Kindly amend lines 4-13 of page 22 of the Description, as would be apparent to those skilled in the art, to read as follows:

~~In an alternate embodiment the key-values found in terms of a two-dimensional inputting device, Figure 12 could be adapted to a illustrates the frontal view to the user of a touch sensitive touch screen embodiment. display graphical user interface of a key-surround data input module keyboard inputting device having conventional Qwerty keyboard key-values, and having the same qualities as described for a three-dimensional embodiment.~~

Figure 13, in terms of a three-dimensional inputting device, illustrates a top-view and has applicability to various embodiments of the key-surround module inputting device. The key-surround module inputting device of Figure 13 contains key-values of the conventional Qwerty keyboard placed so that Qwerty key relationships and positions are maintained while such key-values and inputting can be achieved inputting in a smaller surface area. Key-surround module 323 contains a middle key having a plurality of rest-position key-values such as “A”, “S”, “D”, and “F”, a first key-surround key having the key-values for Q”, “W”, “E”, “R”, T”, “G”, “B”, “V”, “C”, “X”, “Z” and “Capslock”, and, a second key-surround key having the key values for “Numlock”, “Tab”, “Ctrl”, “Shift”, “Fn” “Esc”, “!”, “1”, “@”, “2”, “#”, “3”, “\$”, “4”, “%” and

~~“5” with Qwerty key-values at its surround keys which are inputted from said middle key key-values on the conventional Qwerty keyboard. Key-surround module 323 contains a middle key having a plurality of rest-position key-values such as “J”, “K”, “L”, and “;,” and, a first key-surround key having the key-values for “M”, “N”, “H”, “Y”, “U”, “I”, “O”, “P”, “[, “]”, “””, “””, “?”, “/”, “Ctrl”, “>”, “.”, “<” and “,” and, a second key-surround key having the key-values for “Backspace”, “^”, “6”, “&”, “7”, “Ins”, “\*”, “8”, “(”, “9”, “)”, “0”, “Alt”, “Del”, “+”, “=” and “Shift” with Qwerty key-values at its surround keys which are inputted from said middle key key-values on the conventional Qwerty keyboard. In other embodiments the placements of key-values may be re-arranged to best suit the convenience of the user.~~

Kindly amend lines 7-10 of page 23 of the Description, as would be apparent to those skilled in the art, to read as follows:

~~In terms of a two-dimensional inputting device, Figure 13 illustrates the top view of the a frontal view to the user of a touch sensitive touch screen display graphical user interface of a key-surround data input module keyboard inputting device having conventional Qwerty keyboard key-values. In an alternate embodiment the key-values found in Figure 13 could be adapted to a touch sensitive touch screen embodiment, with the same qualities as described for a three-dimensional embodiment.~~

*In the Claims:*

Kindly enter the following amendments as shown:

20. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a middle key having an inputting means for inputting data ~~including controls to a the computer or other equipment, wherein said middle key is not a mouse button;~~ and

a key-surround key ~~which surrounding s to an extent said middle key and which has having~~ inputting means for inputting data ~~including controls to the a computer wherein said key-surround key is not a mouse button or other equipment, and;~~

~~wherein a support means for supporting said middle key and said key-surround key such that one nests within said key-surround key, the other.~~

wherein said key-surround key comprises a non-rotatable stationary, substantially washer-  
shaped,

substantially circular data entry key;

wherein said key-surround key is pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

21. (Amended) The key-surround module inputting device according to claim 20 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

22. (Amended) The key-surround module inputting device according to claim 20 wherein said key-surround key when pivoted in at least two of said plurality of pivotable positions actuates at least two of said ~~is a floating plural direction pivotable key having a plurality of actuating contact points constructs which enabling output of said data value to the computer.~~ ~~e inputting of a plurality of conventional Qwerty keyboard key values.~~

23. (Amended) The key-surround module inputting device according to claim 20 further comprising wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating contact points ~~constructs which enabling output of said data value to the computer.~~ ~~e inputting of a plurality of conventional Qwerty keyboard key values.~~

24. (Amended) A key-surround data input module keyboard inputting device for inputting data

~~including controls to a computer or other equipment comprising of:~~

a middle key having an inputting means for inputting data including controls to a the  
computer or other equipment, wherein said middle key is not a mouse button ; and

a key-surround key ~~which surrounding s to an extent said middle key and which has~~  
having inputting means for inputting data including controls to the a computer wherein said key-  
surround key is not a mouse button or other equipment, and ;

wherein said key-surround key comprises a non-rotatable stationary, substantially washer-  
shaped,

substantially circular data entry key;

wherein said key-surround key is pivotable in a plurality of pivotable positions operative to  
acutate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value  
to the computer.

a support means for supporting said middle key and said key-surround key ~~such that one~~  
~~rests within the other, having an extension. where said support means has a base with tracks .~~  
~~which allow movement of said middle key and said key surround key in a plurality of direction,~~  
~~and, has sliding washers which allow rotation of said middle key and said key surround key in a~~  
~~plurality of directions at least one of individually and in unison.~~

a base means having a track wherein said extension is movably held.

25. (Amended) The key-surround module inputting device according to claim 24 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

26. (Amended) The key-surround module inputting device according to claim 24 wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

27. The key-surround module inputting device according to claim 24 wherein said middle key is a cursor navigating device.

28. (Amended) The key-surround module inputting device according to claim 27 wherein said key-surround key is a floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

29. (Amended) The key-surround module inputting device according to claim 27 wherein said key-surround key is a key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

30. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a middle key having an inputting means for inputting data ~~including controls to a the~~  
~~computer or other equipment, wherein said middle key is not a mouse button ; and~~

a first key-surround key ~~which surrounding s to an extent said middle key and which has~~  
having inputting means for inputting data ~~including controls to the a computer wherein said first~~  
key-surround key is not a mouse button or other equipment, ; and

a second key-surround key ~~which surrounding s to an extent said middle key and said first~~  
key-surround key and which has having inputting means for inputting data ~~including controls to~~  
the a computer or other equipment, wherein said second key-surround key is not a mouse button ;  
and

a third key-surround key ~~which surrounding s to an extent said middle key, said first key-~~  
surround key and said second key-surround key -and which has having inputting means for  
inputting data ~~including controls to the a computer wherein said third key-surround key is not a~~  
mouse button or other equipment, and ;

wherein said first key-surround key, said second key-surround key and said third key  
surround key each comprises a non-rotatable stationary, substantially washer-shaped, substantially  
circular data entry key;

wherein said first key-surround key, said second key-surround key and said third key-surround key are pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

~~a support means for supporting said middle key, said first key-surround key, said second key-surround key and said third key-surround key such that one nests within the other.~~

31. (Amended) The key-surround module inputting device according to claim 30 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. constructs.

32. (Amended) The key-surround module inputting device according to claim 30 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. constructs.

33. (Amended) The key-surround module inputting device according to claim 30 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. constructs.



34. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a middle key having an inputting means for inputting data ~~including controls to a the~~  
~~computer or other equipment, ; and~~

a first key-surround key ~~which surrounding s to an extent said middle key and which has~~  
having inputting means for inputting data ~~including controls to the a computer or other~~  
~~equipment, ; and~~

a second key-surround key ~~which surrounding s to an extent said middle key and said first~~  
key-surround key and which has having inputting means for inputting data ~~including controls to~~  
~~the a computer or other equipment, ; and~~

a third key-surround key ~~which surrounding s to an extent said middle key, said first key-~~  
surround key and said second key-surround key -and which has having inputting means for  
inputting data ~~including controls to the a computer or other equipment, and ;~~

wherein said first key surround key, said second key surround key and said third key  
surround key each comprises a non-rotatable stationary, substantially washer-shaped, substantially  
circular data entry key;

wherein said first key-surround key, said second key-surround key and said third key-  
surround key are pivotable in a plurality of pivotable positions operative to acutate at least one of

a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer;

~~a support means for supporting said middle key and said key-surround key such that one nests within the other; having an extension; where said support means has a base with tracks which allow movement of said middle key and said key-surround key in a plurality of direction; and, has sliding washers which allow rotation of said middle key and said key-surround key in a plurality of directions at least one of individually and in unison;~~

a base means having a track wherein said extension is movably held.

35. (Amended) The key-surround module inputting device according to claim 34 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

36. (Amended) The key-surround module inputting device according to claim 34 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

37. (Amended) The key-surround module inputting device according to claim 34 wherein said

key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs:~~

38. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a plurality of middle keys having an inputting means for inputting data ~~including controls to a the computer or other equipment, wherein said plurality of middle keys are not mouse buttons ; and~~

a first key-surround key which ~~surrounding s to an extent~~ said middle key ~~and which has having~~ inputting means for inputting data ~~including controls to the a computer wherein said first key-surround key is not a mouse button or other equipment, ; and~~

a second key-surround key which ~~surrounding s to an extent~~ said middle key ~~and said first key and which has~~ having inputting means for inputting data ~~including controls to the a computer wherein said second key-surround key is not a mouse button or other equipment, and ;~~

a third key-surround key which ~~surrounding s to an extent~~ said middle key, said first key-surround key and said second key-surround key ~~and which has~~ having inputting means for inputting data ~~including controls to the a computer wherein said third key-surround key is not a mouse button or other equipment, and ;~~

wherein said first key surround key, said second key surround key and said third key

surround key each comprises a ~~non-rotatable~~stationary, substantially washer-shaped, substantially circular data entry key;

wherein said first key surround key, said second key surround key and said third key surround key are pivotable in a plurality of pivotable positions operative to acutate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

~~a support means for supporting said middle key, said first key surround key, said second key surround key and said third key surround key such that one nests within the other.~~

39. (Amended) The key-surround module inputting device according to claim 38 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

40. (Amended) The key-surround module inputting device according to claim 38 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

41. (Amended) The key-surround module inputting device according to claim 38 wherein said

key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

42. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a plurality of middle keys having an inputting means for inputting data ~~including controls to a the computer or other equipment, wherein said plurality of middle keys are not mouse buttons ; and~~

a first key-surround key ~~which surrounding s to an extent said plurality of middle keys and which has having~~ inputting means for inputting data ~~including controls to the a computer wherein said first key-surround key is not a mouse button or other equipment, and ;~~

a second key-surround key ~~which surrounding s to an extent said plurality of middle keys and said first key-surround key and which has having~~ inputting means for inputting data ~~including controls to the a computer wherein said second key-surround key is not a mouse button or other equipment, and ;~~

a third key-surround key ~~which surrounding s to an extent said plurality of middle keys, said first key-surround key and said second key-surround key and which has having~~ inputting means for inputting data ~~including controls to the a computer wherein said third key-surround key is not a mouse button or other equipment, and ;~~

wherein said first key-surround key, said second key-surround key and said third key-surround key each comprises a non-rotatable stationary, substantially washer-shaped, substantially circular data entry key;

wherein said first key-surround key, said second key-surround key and said third key-surround key are pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

a support means for supporting said plurality of middle keys, said first key-surround key, said second key-surround key, and said third key-surround key ~~such that one nests within the other, having an extension. where said support means has a base with tracks which allow movement of said middle key and said key-surround key in a plurality of direction, and, has sliding washers which allow rotation of said middle key and said key-surround key in a plurality of directions at least one of individually and in unison.~~

a base means having a track wherein said extension is movably held.

43. (Amended) The key-surround module inputting device according to claim 42 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. constructs.

44. (Amended) The key-surround module inputting device according to claim 42 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

45. (Amended) The key-surround module inputting device according to claim 42 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

46. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

a plurality of rest-position middle keys having an inputting means for inputting data ~~including controls to a~~ the ~~computer or other equipment;~~ ; and

a plurality of surround keys ~~which surrounding s to an extent~~ said plurality of middle keys ~~and which has~~ having inputting means for inputting data ~~including controls to~~ the ~~a computer or other equipment, and ;, where said plurality of key surround keys surrounds said plurality of middle keys such that all key values of said plurality of rest position middle keys and all key values of said plurality of key surround keys inputted by the same inputting finger are in proximity to one another, and, where said plurality of key surround keys has inputting means for inputting~~

~~data including controls to a computer or other equipment, ; and~~

~~a plurality of key modules each having one a single key-value; and, having inputting means with a plurality of actuating constructs for inputting data including controls to a computer or other equipment, and;~~

~~a nesting module having a middle key and a plurality of key-surround keys, where said middle key is a cursor navigating device and where said middle key and said key-surround keys have inputting means for inputting data including controls to a computer or equipment and, where said nesting module has a support means for supporting said middle key and said plurality of key-surround keys such that one nests within the other, and;~~

~~wherein said plurality of rest-position middle keys, said plurality of key-surround keys, said plurality of key-modules and said nesting module have Qwerty keyboard key values;~~

~~wherein said plurality of rest-position middle keys nests within said plurality key-surround keys;~~

~~wherein said plurality of key-surround keys, comprises non-rotatablestationary, substantially washer-shaped, substantially circular data entry keys;~~

~~wherein said plurality of key-surround keys are pivotable in a plurality of pivotable positions operative to acutate at least one of a plurality of actuating contact points; and~~

~~wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.~~



~~A support means for supporting said plurality of middle keys and said plurality of middle keys and said plurality of key surround keys in nesting configuration, and, a support means for supporting said key modules and said nesting module in proximity to said plurality of middle keys and to said plurality of key surround keys on the surface of the key surround module inputting device.~~

47. (Amended) The key-surround module inputting device according to claim 46 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

48. (Amended) The key-surround module inputting device according to claim 46 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

49. (Amended) The key-surround module inputting device according to claim 46 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

50. (Amended) A key-surround data input module keyboard inputting device for inputting data

~~including controls to a computer or other equipment comprising of:~~

a plurality of rest-position middle keys having an inputting means for inputting data

~~including controls to a the computer or other equipment,;~~ and

a plurality of key-surround keys which ~~surrounding s to an extent~~ said plurality of middle keys and which has having inputting means for inputting data ~~including controls to the a computer or other equipment, and ;~~ where said plurality of key-surround keys surrounds said plurality of middle keys such that all key-values of said plurality of rest-position middle keys and all key-values of said plurality of key-surround keys inputted by the same inputting finger are in proximity to one another, and, where said plurality of key-surround keys has inputting means for inputting data ~~including controls to a computer or other equipment, ;~~ and

a plurality of key modules each having ~~one~~ a single key-value, and, having inputting means with a plurality of actuating constructs for inputting data ~~including controls to a computer or other equipment, and;~~

a nesting module having a middle key and a plurality of key-surround keys, where said middle key is a cursor navigating device and where said middle key and said key-surround keys have inputting means for inputting data ~~including controls to a computer or equipment and, where said nesting module has a support means for supporting said middle key and said plurality of key-surround keys such that one nests within the other, and;~~

wherein said plurality of rest-position middle keys, said plurality of key-surround keys,

said plurality of key modules and said nesting module Qwerty keyboard key-values;

wherein said plurality of rest-position middle keys nests within said key-surround keys;

wherein said plurality of key-surround keys, comprises non-rotatable stationary,

substantially washer-shaped, substantially circular data entry keys;

wherein said plurality of key-surround keys are pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer;

~~a support means for supporting said plurality of middle keys, and said plurality of key-surround keys, said plurality of key modules and in nesting configuration, and, a support means for supporting said key modules and said nesting module having extensions, in proximity to said plurality of middle keys and to said plurality of key-surround keys, and, where said support means has;~~

~~a base means having with tracks wherein said extensions are movably held, which allow movement of said plurality of middle keys, said plurality of key surround keys, said key modules and said nesting module in a plurality of direction, and whereee said support means has sliding washers which allow rotation of said plurality of middle keys and said plurality of key-surround keys in a plurality of direction independently and in unison.~~

51. (Amended) The key-surround module inputting device according to claim 50 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

52. (Amended) The key-surround module inputting device according to claim 50 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

53. (Amended) The key-surround module inputting device according to claim 50 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

54. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

~~a plurality of eight-nesting modules from left to right on the surface of the key-surround module inputting keyboard device in the following order:~~

~~a first nesting module having a middle key with the key-values for "A" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Q", "Z", "Tab", and "CapsLock" which surrounds to an extent~~

~~said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "1", "!", "Esc", "@", "2", "Shift", "Fn" and "Ctrl", "Alt", "-" and "=", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "Esc" and "F1", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and~~

~~a second nesting module having a middle key with the key-values for "S" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "W" and "X", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "#@", "2" and "3Tab", wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons, and which surrounds to an extent said middle key and said first key-surround key, and, which has~~

~~inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F2", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a third nesting module having a middle key with the key-values for "D" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "E" and "C", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\$#", "3" and "4NumLoc", and which surrounds to an extent said middle key and said first key-surround key, wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F3", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where

~~said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a fourth nesting module having a middle key with the key-values for "F" and ~~inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "R", "T", "G", "B", and "V", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\$", "4", "%", and "5" wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons ;and "<sup>^</sup>" and "6", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "F4" and "F5", and which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a fifth nesting module having a middle key with the key-values for "J" and ~~inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key~~

having the key-values for "U", "Y", "H", "N", and "M", ~~which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "^", "6", "7", "&", "Backspace" and "Ins", ; wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "F6" and "F7", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a sixth nesting module having a middle key with the key-values for "K" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "I", "<" and ",", ~~which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\*" and "8", and "Alt" wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; which~~



~~surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F8", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a seventh nesting module having a middle key with the key-values for "L" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "O", ">" and ".", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "(" and "9"; and "Del" wherein said middle key is not a mouse button, wherein said key-surround keys are mouse buttons; which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F9", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting

~~said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

an eighth nesting module having a middle key with the key-values for “:,” and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for “Ctrl”, “P”, “{”, “[”, “}”, “]”, “\”, “/”, “””, “'”, “?” , “/”, ~~which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for “)” , “0” , “\_”, “\_”, “+”, “=”, “Shift”, “Backspace” and “Ctrl”, and which surrounds to an extent said middle key wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons, and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values “F10”, “F11”, “F12”, and which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a ninth nesting module having a middle cursor navigating device and inputting means for

~~inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn" and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key, having the key-values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key having the key-value for "Enter", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within each other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction individually and in unison, and~~

~~a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, and inputting means for inputting data including controls to a computer or other equipment, ;and~~

~~support means for supporting said nesting modules and said plurality of key modules having extensions; and~~

~~a-base means for supporting from left to right said first, second, third, fourth, fifth, sixth, seventh and eighth nesting modules on the key-surround module inputting device, and for~~

~~supporting said ninth nesting modules, where said base means provides movement and rotation of~~  
~~said nesting modules in a plurality of direction individually, in groups and in unison having tracks~~  
wherein said extensions are movably held

wherein said middle keys nest within said first key-surround keys;

wherein said middle keys and said first key-surround keys nest within said second key-  
surround keys;

wherein said key-surround keys comprise ~~non-rotatable~~stationary, substantially washer-  
shaped,

substantially circular data entry keys;

wherein said key-surround keys are pivotable in a plurality of pivotable positions operative  
to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value  
to the computer.

55. (Amended) The key-surround module inputting device according to claim 54 wherein said  
key-surround keys are floating plural direction pivotable key having a plurality of actuating  
contact points. constructs.

56. (Amended) The key-surround module inputting device according to claim 54 wherein said

key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

57. (Amended) The key-surround module inputting device according to claim 54 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

58. (Amended) The key-surround module inputting device according to claim 54 wherein said base means, having a plurality of tracks, ~~supports said nesting modules and key modules are in~~ curved arrangement d in a curved configuration. ~~two groups of four nesting modules from left to right with said first, second, third and fourth nesting modules as the first group, and, said fifth, sixth, seventh, and eighth nesting modules as the second group, where said ninth nesting module is supported with one of said two groups and said plurality of key modules is supported in proximity to said two groups.~~

59. (Amended) The key-surround module inputting device according to claim 58 wherein said key-surround keys are floating plural direction pivotable key having a plurality of actuating contact points. ~~constructs.~~

60. (Amended) The key-surround module inputting device according to claim 58 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

61. (Amended) The key-surround module inputting device according to claim 58 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

62. (Amended) A key-surround data input module keyboard inputting device for inputting data ~~including controls to a computer or other equipment comprising of:~~

~~a plurality of two-nesting modules from left to right on the surface of the key-surround module inputting keyboard device in the following order:~~

~~a first nesting module having from left to right on the nesting module a middle key with the key-values for "A" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "S" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "D" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "F" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key values for "Q", "Z", "Tab",~~

~~“CapsLock”, “Shift”, “Ctrl”, “W”, “X”, “E”, “C”, “R”, “T”, “G”, “B”, and “V”, and, where said first key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, and a second key-surround key having key values for “1”, “!”, “Esc”, “Fn”, “Ctrl”, “Tab”, “NumLock”, “@”, “2”, “Shift”, “\_”, “””, “#”, “3”, “Alt”, “\$”, “4”, “%”, and “5”, “^”, and “6”,; and, where said second key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, a third key-surround key having the key values for “Esc” and “F1”, “F2”, “F3”, “F4”, and “F5”, and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

a second nesting module having from left to right on the nesting module a middle key with the key-values for “J” and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for “K” and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for “L” and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for “.” and inputting means for inputting data including controls to a

computer or equipment, and, a first key-surround key having the key values for "U", "Y", "H", "N", "M", "I", "<", ">", "O", ">", ".", "P", "{", "[", "}", "]", "|", "\\", ":", ";", "?", and "/", and, where said first key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, and a second key-surround key having key values for "^", "6", "7", "&", "\*", "8", "(", "9", ")", "0", "\_", "—", "=", "+", "Shift", "Backspace", "Ins", "Alt", "Del", and "Ctrl"; and second key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, a third key-surround key having the key values for "F6", "F7", "F8", "F9", "F10", "F11" and "F12", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment,

a third nesting module having a middle cursor and pointer-navigating device and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Home", "PgUp", "PgDn", and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key-values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key-value for "Enter", and which



~~surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment;~~ and

~~a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard;~~  
~~and inputting means for inputting data including controls to a computer or other equipment;~~ and

support means for supporting said nesting modules and said plurality of key modules having extensions; and

~~a base means for supporting from left to right said first, second, third, fourth, fifth, sixth, seventh and eighth nesting modules on the key-surround module inputting device, and for supporting said ninth nesting modules, where said base means provides movement and rotation of said nesting modules in a plurality of direction individually, in groups and in unison~~having tracks wherein said extensions are movably held;

wherein said middle keys nest within said first key-surround keys;

wherein said middle keys and said first key-surround keys nest within said second key-surround keys;

wherein said key-surround keys comprise non-rotatable stationary, substantially washer-shaped,

substantially circular data entry keys;

wherein said key-surround keys are pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and  
wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

63. (Amended) The key-surround module inputting device according to claim 62 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

64. (Amended) The key-surround module inputting device according to claim 62 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

65. (Amended) The key-surround module inputting device according to claim 62 wherein said base means, ~~having a plurality of tracks, supports said nesting modules and key modules are in curved arrangement in a curved configuration.~~ ~~two groups of four nesting modules from left to right with said first, second, third and fourth nesting modules as the first group, and, said fifth, sixth, seventh, and eighth nesting modules as the second group, where said ninth nesting module is supported with one of said two groups and said plurality of key modules is supported in proximity~~

~~to said two groups.~~

66. (Amended) The key-surround module inputting device according to claim 65 wherein said key-surround keys are key-arrangement key-surround key having a plurality of actuating contact points. ~~constructs.~~

67. (Amended) The key-surround module inputting device according to claim 65 wherein said key-surround keys are key-arrangement key surround and floating plural direction pivotable keys having a plurality of actuating contact points. ~~constructs.~~

68. (Amended) The key-surround data input module keyboard inputting device of claim 20 wherein said key-surround data input module keyboard inputting device A touch sensitive touch screen device for inputting data including controls to a computer or other equipment comprising ~~es~~ of:

a touch sensitive touch screen display displaying a graphical user interface depicting a middle key; and a key-surround key ~~which-surroundings to an extent said middle key~~

wherein said middle key nests within said key-surround key;

wherein said key-surround key comprises a non-rotatable stationary, substantially washer-shaped, substantially circular data entry key;

wherein said key-surround key is touchable in a plurality of places operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

69. (~~Ammended~~) A touch sensitive touch screen device for inputting data ~~including controls to a computer or other equipment~~ according to claim 68 wherein said display has means to detect touch in a plurality of places on the surface of said display.

70. (~~Ammended~~) A touch sensitive touch screen device for inputting data ~~including controls to a computer or other equipment~~ according to claim 68 also comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

71. (~~Amended~~) A touch sensitive touch screen device for inputting data ~~including controls to a computer or other equipment~~ comprising of:

a touch sensitive touch screen display displaying a graphical user interface depicting a plurality of middle keys; and a plurality of key-surround keys ~~which surroundings to an extent~~ said plurality of middle keys and key-surround keys;

wherein said plurality of middle keys nests within said plurality of key-surround keys;  
wherein said plurality of key-surround key comprises a ~~non-rotatable~~ stationary,  
substantially washer-shaped, substantially circular data entry key;  
wherein said plurality of key-surround key is touchable in a plurality of touchable places  
operative to actuate at least one of a plurality of actuating contact points; and  
wherein actuation of one of said plurality of actuating contact points outputs a data value  
to the computer.

72. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a~~  
~~computer or other equipment~~ according to claim 71 wherein said display has means to detect  
touch in a plurality of places on the surface of said display.

73. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a~~  
~~computer or other equipment~~ according to claim 71 also comprising of a touch panel which rests  
above said display, and, having a means to detect touch and the place of touch in relation to the  
depiction of said display.

74. (Amended) The key-surround data input module keyboard inputting device of claim 20  
wherein said key-surround data input module keyboard inputting device ~~A touch sensitive touch~~

screen device for inputting data including controls to a computer or other equipment comprising  
of:

a touch sensitive touch screen display displaying a graphical user interface depicting a  
plurality of rest-position middle keys, depicting a plurality of key-surround keys, which surrounds  
to an extent said plurality of middle keys, and, depicting a background which surrounds to an  
extent said plurality of rest position middle keys and a plurality of key-surround keys, where said  
plurality of key-surround keys surrounds said plurality of middle keys such that all key-values of  
said plurality of rest position middle keys and all key-values of said plurality of key-surround keys  
inputted by the same inputting finger are in proximity to one another.

wherein said plurality of rest-position middle keys nests within said plurality of key-  
surround keys;

wherein said plurality of key-surround keys comprises a non-rotatable stationary,  
substantially washer-shaped, substantially circular data entry key;

wherein said plurality of key-surround keys is touchable in a plurality of places operative  
to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value  
to the computer.

75. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a~~  
~~computer or other equipment~~ according to claim 74 wherein said display has means to detect  
touch in a plurality of places on the surface of said display.

76. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a~~  
~~computer or other equipment~~ according to claim 74 also comprising of a touch panel which rests  
above said display, and, having a means to detect touch and the place of touch in relation to the  
depiction of said display.

77. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a~~  
~~computer or other equipment~~ comprising of:

a touch sensitive touch screen display displaying a graphical user interface depicting the  
following ~~with the first and second, third, fourth, fifth, sixth, seventh and eighth nesting modules~~  
~~in same said numerical order from left to right:~~

a first nesting module having a middle key with the key-values for "A" and inputting  
~~means for inputting data including controls to a computer or equipment, and, a first key-surround~~  
key having the key-values for "Q", "Z", "Tab", and "CapsLock" ~~which surrounds to an extent~~  
~~said middle key and which has inputting means for inputting data including controls to a computer~~  
~~or other equipment, and, a second key-surround key having the key-values for "1", "!", "Esc",~~

"@", "2", "Shift", "Fn" and "Ctrl", "Alt", "-" wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and "`", and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for "Esc" and "F1", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and

a second nesting module having a middle key with the key-values for "S" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "W" and "X", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "#@", "2" and "3Tab", wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F2", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are



~~depicted such that one nests within the other, and~~

a third nesting module having a middle key with the key-values for "D" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "E" and "C", ~~which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\$#", "3" and "4NumLoc", and which surrounds to an extent said middle key and said first key-surround key, wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F3", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and~~

a fourth nesting module having a middle key with the key-values for "F" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "R", "T", "G", "B", and "V", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\$", "4", "%", and "5" wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse

~~buttons ;and “^” and “6”, and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for “F4” and “F5”, and which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and~~

a fifth nesting module having a middle key with the key-values for “J” and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for “U”, “Y”, “H”, “N”, and “M”, which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for “^”, “6”, “7”, “&”, “Backspace” and “Ins”, ; wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values for “F6” and “F7”, which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and

a sixth nesting module having a middle key with the key-values for "K" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "I", "<" and ",", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "\*" and "8", and "Alt", wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; which surrounds to an extent said middle key and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F8", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and

a seventh nesting module having a middle key with the key-values for "L" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "O", ">" and ".", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for "(" and "9", wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and "Del", which surrounds to an extent said middle key and said first key-surround key, and, which has inputting

~~means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F9", which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and~~

an eighth nesting module having a middle key with the key-values for ":", and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key-values for "Ctrl", "P", "{", "[", "]", "\", "\", "'", "\"", "?", "/", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key having the key-values for ")", "0", "\_", "+", "=", "Shift", "Backspace" and "Ctrl", and which surrounds to an extent said middle key wherein said middle key is not a mouse button, wherein said key-surround keys are not mouse buttons; and said first key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and, a third key-surround key having the key-values "F10", "F11", "F12", and which surrounds to an extent said middle key, and first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and

a ninth nesting module having a middle cursor navigating device and inputting means for

~~inputting data including controls to a computer or equipment, and, a first key-surround key having the key values for "Home", "PgUp", "PgDn" and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or other equipment, and, a second key-surround key, having the key values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key having the key value for "Enter", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, where said middle key, said first key-surround key, said second key-surround key and said third key-surround key are depicted such that one nests within the other, and~~

a plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space"; ~~on the conventional Qwerty keyboard, where said plurality of nesting modules are depicted in proximity to said first through ninth nesting modules;~~

wherein said middle keys nest within said first key-surround keys;

wherein said middle key and said first key-surround keys nest within said second key-surround keys;

wherein said key-surround keys comprise non-rotatable stationary, substantially washer-shaped,

substantially circular data entry keys;

wherein said key-surround keys is touchable in a plurality of places operative to actuate at least one of a plurality of actuating contact points; and  
wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

78. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a computer or other equipment according to claim 77~~ wherein said display has means to detect touch in a plurality of places on the surface of said display.

79. (Amended) A touch sensitive touch screen device for inputting data ~~including controls to a computer or other equipment according to claim 77~~ comprising of a touch panel which rests above said display, and, having a means to detect touch and the place of touch in relation to the depiction of said display.

80. (Amended). The touch sensitive touch screen ~~key-surround module inputting device of claim 78~~ wherein said nesting modules and said key modules are depicted in a curved arrangement configuration, ~~and wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein~~

~~said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.~~

81. (Amended). The touch sensitive touch screen key-surround module inputting device of claim 79 wherein said nesting modules and said plurality of key modules are depicted in curved arrangement configuration; and, ~~wherein said nesting modules are depicted apart in two groups of four nesting modules beginning from left to right with said first, second, third and fourth nesting modules as the first group and said fifth, sixth, seventh, eighth nesting modules as the second group, and, wherein said ninth nesting module is depicted with one of said two groups, and, wherein said plurality of key modules is depicted in curved arrangement with said two groups.~~

82. (Amended) A touch sensitive touch screen device for inputting data including controls to a computer or other equipment comprising of:

a touch sensitive touch screen display displaying a graphical user interface depicting the following with the first and second, third, fourth, fifth, sixth, seventh and eighth nesting modules in same said numerical order from left to right:

a said first nesting module having from left to right on the nesting module a middle key with the key-values for "A" and inputting means for inputting data including controls to a

~~computer or equipment, a middle key with the key-values for "S" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "D" and inputting means for inputting data including controls to a computer or equipment, a middle key with the key-values for "F" and inputting means for inputting data including controls to a computer or equipment, and, a first key-surround key having the key values for "Q", "Z", "Tab", "CapsLock", "Shift", "Ctrl", "W", "X", "E", "C", "R", "T", "G", "B", and "V", and, where said first key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, and a second key-surround key having key values for "1", "!", "Esc", "Fn", "Ctrl", "Tab", "NumLock", "@", "2", "Shift", " ", " ", "#", "3", "Alt", "\$", "4", "%", and "5", " ", and "6", and, where said second key-surround surrounds to an extent said middle keys and which has inputting means for inputting data including controls to a computer or other equipment, a third key surround key having the key values for "Esc" and "F1", "F2", "F3", "F4", and "F5", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key and said key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

~~A said second nesting module having from left to right on the nesting module a middle key~~



with the key-values for "J" and ~~inputting means for inputting data including controls to a computer or equipment~~, a middle key with the key-values for "K" and ~~inputting means for inputting data including controls to a computer or equipment~~, a middle key with the key-values for "L" and ~~inputting means for inputting data including controls to a computer or equipment~~, a middle key with the key-values for ":", and ~~inputting means for inputting data including controls to a computer or equipment~~, and, a first key-surround key having the key values for "U", "Y", "H", "N", "M", "I", "<", ">", "O", ">", "P", "{", "[", "]", "|", "\\", ":", ";", "?", and "/", and, where said first key-surround surrounds to an extent said middle keys and which has ~~inputting means for inputting data including controls to a computer or other equipment~~, and a second key-surround key having key values for "^", "6", "7", "&", "\*", "8", "(", "9", ")", "0", "\_", "\"", "\"", "=", "+", "Shift", "Backspace", "Ins", "Alt", "Del", and "Ctrl"; and second key-surround surrounds to an extent said middle keys and which has ~~inputting means for inputting data including controls to a computer or other equipment~~, a third key-surround key having the key values for "F6", "F7", "F8", "F9", "F10", "F11" and "F12", and, where said third key-surround key surrounds to an extent said middle keys, said first key-surround key and said second key-surround key, and, which has ~~inputting means for inputting data including controls to a computer or other equipment~~, and

A said third nesting module having a middle cursor and pointer-navigating device and ~~inputting means for inputting data including controls to a computer or equipment~~, and, a first key-

~~surround key having the key values for "Home", "PgUp", "PgDn", and "End", which surrounds to an extent said middle key and which has inputting means for inputting data including controls to a computer or equipment, and, a second key-surround key having the key values for "Up", "Down", "Left" and "Right", and which surrounds to an extent said middle key and said first key-surround key, and, a third key-surround key having the key value for "Enter", and which surrounds to an extent said middle key, said first key-surround key and said second key-surround key, and, which has inputting means for inputting data including controls to a computer or other equipment, and a support means for supporting said middle key, said first key-surround key, said second key-surround key, said third key-surround key such that one nests within the other, where said support means allows movement and rotation of said middle key and said key-surround key in a plurality of direction, individually and in unison, and~~

~~A said plurality of key modules consisting of middle keys having the key-values for more frequently used keys such as for "Enter" and "Space" on the conventional Qwerty keyboard, and, where said plurality of nesting modules are depicted in proximity to said first through ninth nesting modules;~~

wherein said middle keys nest within said first key-surround keys;

wherein said middle key and said first key-surround keys nest within said second key-surround keys;

wherein said key-surround keys comprise non-rotatable stationary, substantially washer-

shaped,

substantially circular data entry keys;

wherein said key-surround keys is touchable in a plurality of places operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

87. (Amended) A method for inputting data and controls inputting to a computer or other equipment with a key-module inputting device comprising of:

placing a finger on a middle key of the key-surround module inputting device; and

extending said finger from said middle key in one of a plurality of direction; and

striking ~~one~~ a key-surround key in order to input one of a plurality of key values, where said key-surround surrounds to an extent any said nested middle key.

wherein said middle key nests within said key-surround key;

wherein said key-surround key comprises a ~~non-rotatable~~stationary, substantially washer-shaped,

substantially circular data entry key;

wherein said key-surround key is pivotable in a plurality of pivotable positions operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value to the computer.

88. (Amended) A method for inputting data and controls inputting to a computer or other equipment with a key-module inputting device comprising of:

placing hands a finger on a middle key of upon the key-surround module inputting device  
such that the inputting fingers of each hand rest on a plurality of nested middle keys; and

extending said any finger from any said plurality of nested middle keys in one of a plurality of direction, and

striking one of a plurality of key-surround keys in order to input one of a plurality of key-values, where said one of a plurality of key-surround keys surrounds to an extent any one of said middle keys.

wherein said middle key nests within said key-surround key;

wherein said key-surround key comprises a non-rotatable stationary, substantially washer-shaped,

substantially circular data entry key;

wherein said key-surround key is touchable in a plurality of places operative to actuate at least one of a plurality of actuating contact points; and

wherein actuation of one of said plurality of actuating contact points outputs a data value

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to the computer.

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## DESCRIPTION OF THE ILLUSTRATED EMBODIMENT

Figure 1 represents a key-surround data input module keyboard or nesting module embodying principles of the present invention. It is shown from a top plan view to have a middle key 1 at its focus, a circular washer-shaped stationary key-surround key, and an optional, in this case circular, bordering wall 5 which here separates the middle key from its most adjacent key-surround key 2. In other embodiments, the key surround key need not be concentric nor more than substantially circular. Also, the key-surround key also need not completely surround the middle key. The bordering wall need not be present if the key parts which comprise the key-surround module are shaped and held into place by their actuating constructs as will be discussed below. Dotted line 3 and all other such lines of this key-surround module illustration represent either a dividing line between key parts or a dividing line between zones of actuating contact points depending upon the embodiment. Space 4 may therefore represent a key part in a key-arrangement key-surround key or an area of multiple actuating contact points in a floating pivotable key-surround key. This two-dimensional illustration is also applicable to any touch sensitive touch screen display displaying a graphical user interface of a key-surround data input module keyboard inputting device.

The Key-Surround data input module keyboard inputting device is not intended to be limited to, for example, a Qwerty keyboard embodiment whereas there are other embodiments such as Stenographic™ keyboards, musical keyboards and other inputting devices for other equipment which contain inputting values which can be inputted by the key-surround module inputting device. In the case of Figure 2, however,

1 middle key 6 has the key-value for "J", with a circular washer-shaped key-surround key  
2 having the values, for keys numbered 7 through 11, for "U", "Y", "H", "N", and "M"  
3 respectively. Whereas this figure depicts a top view, these key-values may be for parts of  
4 a key-arrangement key-surround key as well as for areas of multiple actuating contact  
5 points of a floating pivotable key-surround key. Depending on the embodiment, line 12  
6 and dotted lines as 15 will represent spaces between key parts or dividing borders  
7 between inputting areas. Line 16 may also represent the edge of a key-arrangement key  
8 or demarcation of different contact areas of a floating pivotable embodiment. 13 and 14  
9 represent key parts or areas which are free to carry any key-value which is suitable for  
10 convenience and for the saving of inputting space.

11 Figures 3a, 3b and 3c represent several embodiments of key-surround modules.  
12 Figure 31 illustrates a side view of a key-arrangement key-surround module where top  
13 and bottom actuating contact point parts 18 and 19 are held apart by the flexible exterior  
14 17. Dotted lines such as that of 20 here illustrate connections of such flexible material.  
15 Top actuating contact point part 18 is attached to the inside top of the key-surround key  
16 at 23 and actuating contact point bottom is secured to the base of the key-surround key.  
17 Output signal is made once the exterior above the appropriate actuating construct, in this  
18 case at 23, is pressed. Output is achieved in all key-surround keys of all embodiments of  
19 the key-surround data input module keyboard inputting device by the user's pressing  
20 down upon key-surround keys and not by rotating said key-surround keys. Actuating  
21 contact points may be either, in this case, capacitive or hard-contact. The signal is  
22 illustrated as 24 along the circumference and perpendicular to the circumference toward  
23 the center of the key-surround key. Middle key 21 has one actuating contact point

1   beneath it at 22.. Middle key 21 has one actuating contact point beneath it at 22. Washer  
2   25 is attached to the bottom of the key-surround module having a protrusion 26 which fits  
3   into groove 28 of base 27. The groove allows a limited rotation of the key-surround key  
4   in relation to the middle key.

5           Figure 3b also illustrates a key-arrangement key-surround key as Figure 3a,  
6   however with some differences. Middle key 29 with actuating contact point 31, either  
7   capacitive or hard-contact, nests within key-arrangement key surround key 30.  
8   Perpendicular lines such as that of line 32 illustrate the divisions between the key tops of  
9   the key parts which form the key-arrangement key-surround key. These divisions need  
10   not be limited to being perpendicular with respect to the circumference of the key-  
11   surround key as will be discussed below. Key 33 has beneath it one actuating contact  
12   point 34 which can be either capacitive or hard-contact. This key-arrangement key-  
13   surround key need not have any dividers between its individual inputting parts for its  
14   shape and its actuating contact point 34 keep it in place and keep it from interfering with  
15   the other key parts of the key-surround key. It is however possible to have a wall 35 as in  
16   this case. Output signals are carried through circuits like that of 35, toward the center of  
17   the key-surround key.

18           Figure 3c illustrates a key-surround data input module inputting device  
19   embodiment which in this case has a trackball cursor navigating device as its middle key  
20   surrounded by a floating pivotable key-surround key. Trackball 41 with actuating  
21   constructs at 49 are in this case encircled by floating pivotable key-surround key 42  
22   having flexible tubular material at its center which allows a springing action when the  
23   key-surround key is pressed and released. It is possible in another embodiment to replace



1 said trackball with other forms of cursor or pointer navigating devices, here and  
2 throughout the specification. A similar flexible tubular material 46 covers the exterior  
3 sides of the key-surround key and also enables a springing action after the key-surround  
4 key is pressed. When the key-surround key is pressed, nodes placed under the top of key-  
5 surround key 42 and along the circumference of the key-surround key like that of 47  
6 come into contact with actuating contact points like that of 48 causing an output signal to  
7 be made. Said actuating contact points can be capacitive or hard-contact and are secured  
8 to the bottom 51 of the key-surround key. Washer 52 attached to bottom of the key-  
9 surround module has a protrusion 53 which fits into groove 55 on base washer 54 thereby  
10 permitting limited rotation of the key-surround key. Dotted lines such as that of 43 and  
11 spaces between such lines on the surface of the key-surround key such as 44 illustrate an  
12 area where groups of nodes and their corresponding actuating constructs may carry the  
13 same key-value thereby increasing the likelihood of the user inputting the key-value and  
14 also extending the area upon which the user can perform the inputting task. Output signal  
15 carriers such as that of 50 transport signals along bottom 51 towards the center of the  
16 key-surround key.

17 Figure 4 illustrates a key-surround data input module keyboard inputting device  
18 56 having a middle key 57, and a plurality of circular, washer-shaped key surrounds keys  
19 58 and 60. Key-surround 58 is a key-arrangement key-surround key of, in this case, four  
20 inputting parts. Key-surround 58 is curved at its top and protrudes in its nesting position  
21 inside key-surround 60 so that it can be better distinguished by the user's tactile sense.  
22 The key-surround data input module keyboard inputting device is not limited to these key  
23 shapes and heights. Any given key-surround key may have its keys at any combination

1 of heights, shapes and textures in order to distinguish them from other keys and to  
2 facilitate inputting. Dotted line 59 illustrates that the divisions between key parts need  
3 not be solely perpendicular to the circumferences of their respective key-surround key.  
4 Rather they can form any shape which in order to facilitate inputting and to create  
5 distinguishable inputting key parts in the case of the key-arrangement key-surround keys  
6 or areas of a floating pivotable key-surround key. In this case the divisions create a spiral  
7 pattern from the inner circumference of key-arrangement key-surround key. Key-  
8 surround 60 is a floating pivotable key-surround key similar to that in Figure 3c. It has a  
9 flexible accordion-like side surface.

10 Key-surround data input module keyboard inputting device 56 is held in track 61  
11 by its central peg 63 and peg support 64. Said peg is attached to the center of the base of  
12 the key-surround inputting device and to said peg support 64. Said peg support is wider  
13 than the width of said track and thereby is held securely in said track. Said peg support  
14 travels on sub-track 65 which is as long as track 61. Said sub-track has a parallel space  
15 66 below track 61 such that said peg support fits tightly within said parallel space. The  
16 track can be in any manner of shapes, lengths and sizes depending on the desired path of  
17 the key-surround inputting device.

18 Figure 5 illustrates a key-surround data input module keyboard inputting device  
19 having a middle key-67, a circular washer-shaped first key-surround key 69, a second  
20 circular, washer-shaped key-surround key 71 and a substantially circular, substantially  
21 washer-shaped third key-surround key 73. In between said keys are divisions or spaces  
22 68, 70 and 72. These key-surround keys may be any combination of key-arrangement or  
23 floating pivotable key surround keys. The third key-surround is slightly extended at area

1 74 do that it may be easily accessed by the user. This illustrates that the key-surround  
2 key need not be uniform throughout and may be amorphous in shape as well as not  
3 necessarily be concentric with the other key-surround keys or middle keys.

4 Figure 6 illustrates an embodiment of the key-surround data input module  
5 keyboard inputting device according to the present having a plurality of middle keys each  
6 having a plurality of substantially circular, substantially washer-shaped and stationary  
7 key-surround keys forming a series of nesting modules 75, 76, 77, 78, 79, 80, 81 and 82.  
8 Figure six is divided into two parts at dotted line 86a. To the right of line 86 what is  
9 depicted is the top view of the right half of the embodiment. To the left of line 86, what  
10 is depicted is the top view of the left half of the embodiment with the key tops removed  
11 to reveal actuating constructs and their bases.

12 Key surround 79 has at its focal point middle key 89 completely surrounded by  
13 the first key-surround key 90 which is in this case circular. These keys are in turn  
14 surrounded in part by key-surround 91 which is amorphously shaped, which is in turn  
15 surrounded in part by key-surround 92. Adjacent key-surround module 80 has a middle  
16 key 93 surrounded completely by key-surround key 94, oval in shape. These keys are  
17 surrounded in part by crescent shaped key surround key 95, in turn surrounded in part by  
18 key-surround key 96. Key-surround module or nesting module 81 is of the same  
19 structure as key-surround module 80, having middle key 97, first key-surround key 98,  
20 second key-surround key 99 and third key-surround key 100. Key-surround module 82  
21 has a middle key 102 and first key-surround key 103 similar to middle key 89 and key-  
22 surround key 90, respectively. Key-surround key 104 is amorphous and surrounds in part

1 key-surround key 103. This key-surround has an extension at area 105. Third key-  
2 surround key 101 surrounds in part key-surround key 103.

3 To the left of line 86a is the left half of this embodiment of the key-surround data  
4 input module keyboard inputting device revealing actuating contact points and their  
5 placements which are beneath the key tops of key surround modules 75, 76, 77 and 78.  
6 Key-surround module 75, has at its middle key interior base 108 and actuating construct  
7 109 at its center. This actuating construct may either be a capacitive or an hard-contact  
8 actuating construct. Surrounding this middle key actuating construct is the interior base  
9 110 of a floating pivotable key-surround key having a flexible tubular stricture at 113  
10 and a plurality of actuating constructs such as 111 in groups of four actuating constructs,  
11 connected by circuits such as 112. In this configuration these groups of actuating  
12 constructs hold the same key-values and serve to extend the area where inputting may be  
13 achieved on the outer circumference of the floating pivotable key-surround key.  
14 Dividing lines such as that at 114 mark the divisions of said common key-value inputting.  
15 Said actuating constructs may be either hard-contact or capacitive. Attached to said base  
16 110 is flexible tubular material 110a which allows for the springing back of the floating  
17 pivotable key-surround key after it is pressed by the user at any point. Key-surround base  
18 115 contains actuating constructs such as 116 for a key-arrangement key-surround key.  
19 Actuating constructs are separated into groups of actuating constructs for arranged keys  
20 at demarcation lines similar to that of 119. Amorphous key base 117 extends the key-  
21 arrangement key-surround key and contains a series of actuating constructs such as that  
22 of 118.

1           Actuating construct 124 is fixed at the base of the middle key of module 76.  
2   Floating pivotable key-surround key base 125 contains two actuating constructs 123 and  
3   126. Also part of this key base is a flexible tubular part 127 which allows the key to  
4   more efficiently spring back after it has been pressed by the user. In this case it is not  
5   necessary to have an exterior flexible tubular material such as 110a in module 75,  
6   whereas the springing action of the flexible tubular part 127 and that of the actuating  
7   constructs 123 and 126 are sufficient. The base of the second key-surround 120 contains  
8   a single actuating construct 124 which may also be hard-contact or capacitive. Module  
9   77 is of identical structures as those of module 76. Key-surround module 78 has a middle  
10   key base 129 is very similar to that of 110 of module 75. Key-surrounds 130a and 130b  
11   are secondary and tertiary key-surround key bases and each contain a plurality of hard-  
12   contact or capacitive keys for, in this case, key-arrangement key-surround keys. Both  
13   halves of the illustration of the key-surround inputting device embodiment of Figure 6 fit  
14   into one another at point 131.

15           Key surround key modules 75, 76, 77, 78, 79, 80, 81 and 82 have one or more  
16   key-surround keys. In this depicted embodiment there are a plurality of such key-  
17   surround modules or nesting modules which form the key-surround data input module  
18   keyboard inputting device. These nesting modules are arranged in this case in a concave  
19   curved arrangement such that middle keys coincide with the curvature of the users finger  
20   tips at rest for greater comfort. In other embodiments these keys may be aligned without  
21   said curved arrangement, with differing numbers of key-surround keys and having  
22   various shapes.

1           Below the four key-surround modules 79, 80, 81 and 82, in this case is one oval  
2 key module 88. Key module 88 is of the same interior structure as that of key-module 86  
3 in this case also oval in shape and placed beneath nesting modules 78 and 79. Said key  
4 module 86 has a plurality of actuating constructs such as 87 which allow the user to press  
5 any part of said key module in order to input the same value, It is possible also to place  
6 more than one key-value to these actuating constructs which can either be capacitive or  
7 hard-contact constructs. In this case beneath key-modules 75, 76, 77 and 78 there is  
8 another nesting module 83 having trackball base with cursor navigating device actuating  
9 constructs 85 and in this case two circular nesting key-surround keys 83a and 83b. The  
10 surface of the inputting device 106 is in this case flat but may be of varying heights above  
11 surface 106, of various inclines and of varying textures to facilitate the user's reach and  
12 touch identification.

13           Figure 7 illustrates an embodiment of the key-surround data input module  
14 keyboard inputting device according to the present invention having a plurality of key-  
15 surround modules 132 and 133, each having a plurality of middle keys. Figure 7 is  
16 divided into two parts at dotted line 141. To the right of line 141, Figure 7 depicts top  
17 view of the right half of the embodiment. To the left of line 141, Figure 7 depicts the top  
18 view of the left side of the embodiment with the key tops removed to reveal actuating  
19 constructs and their bases.

20           To the right of said line 141, middle keys 134, 135, 136 and 137 serve as a  
21 plurality of middle keys of the key-surround module 133. Said plurality of middle keys is  
22 surrounded by a first key-surround key 138 which is in turn surrounded in part by a  
23 second key-surround key 139, and, which is in turn surrounded by a third key-surround

1 key 140. It is not necessary in other embodiments to have this particular number of  
2 middle keys or key-surround keys or even said number of key-surround inputting  
3 modules. Said plurality of middle keys, in this case are aligned in a concave curvature on  
4 the surface of the inputting device with said key-surround keys accommodating such  
5 shape. Dotted lines within the module such as 142 are lines of demarcation representing  
6 spaces between keys in certain embodiments or borders between areas of different key-  
7 value inputting in others. At such lines it is possible to have separated keys, borders  
8 between keys or continuous surfaces with actuating contact points beneath which change  
9 in key-values at lines such as 141 (See Figures 3a to 3b). In such embodiments where  
10 such lines represent physical separations of keys, the key-surround module may be  
11 separated at such lines and moved on the surface 144 of the inputting device with an  
12 underlying system of tracks as in Figure 8, discussed below. Beneath said inputting  
13 device module 133 is a key module 134 here oval in shape.

14 First key-surround key base 154 is a key base for a combination key-arrangement  
15 and floating pivotable key-surround key. Thus, said first key-surround base contains the  
16 actuating contact points for key-arrangement key-surround keys and floating pivotable  
17 key-surround keys. This key-surround contains a plurality of actuating contact points,  
18 either capacitive or hard-contact. The arrangement keys consist of floating pivotable  
19 key-surround key parts 148 and 155 at both ends of the key-surround key where they  
20 partially surround middle key bases of middle keys 138 and 147, respectively. Key-  
21 surround base 148 is that of a pivotable key-surround floating which partially surrounds  
22 the middle key of which base key 138 is associated. Key-surround base 148 contains a  
23 plurality of actuating contact points such as that of 149 in groups. Key-surround base

1 155 contains a plurality of actuating contact points such as that of 156 in groups. Said  
2 actuating contact points can be either hard-contact or capacitive. Such groups of  
3 actuating contact points share the same key-value and expand the area on such a key-  
4 surround key where the user can input a certain key-value. A flexible part-tubular wall  
5 151 surrounds the base for the floating pivotable key part extending around part of  
6 middle key area associated to middle key actuating contact point 147 and extends around  
7 the entire base 155. Said actuating constructs can be either hard-contact or capacitive.  
8 Such groups of actuating constructs share the same key-value and expand the area on  
9 such a key-surround inputting device where the user can input a certain key-value. A  
10 flexible part-tubular wall 151 surrounds the base for the floating pivotable key part  
11 extending around part of middle key area associated to middle key actuating construct  
12 147 and extends around the entire base 155. The rest of the key bases such as 160 on this  
13 key-surround key 154 are those for key-arrangement keys surrounding in this case, four  
14 middle keys and connecting the floating pivotable areas 148 and 155. Lines of  
15 demarcation such as that of 159 designate where keys are separated by spaces or border  
16 walls separating each key base that has actuating constructs with different key-values. In  
17 other embodiments where the key-tops are continuous (See Figure 3a) these lines merely  
18 designate where such actuating constructs have different key-values.

19 The second key-surround key base 161 is a base with actuating contact points for  
20 a combination key-arrangement and floating pivotable surround key. Actuating contact  
21 points such as that of 167 of base 162 surround and in this case particularly surround key-  
22 surround base area 148. Circuit 169 connects all actuating contact points so that in this  
23 case each actuating contact point of base 162 will signal the same key-value. Base 162 is



1 further divided into bases for key arrangement key-surround keys having groups, in this  
2 case of two, four or three actuating contact points, each group having the same key value.  
3 The third key-surround base 163 of module 132 is a base for a key-arrangement key  
4 surround key having actuating contact points and partially surrounding said second key  
5 surround 161. All said actuating contact points being either hard-contact or capacitive.

6 Below key-surround module 132 there is in this case a nesting module 164 having  
7 a trackball cursor navigating device actuating contact point 166 and in this case two  
8 circular key-surround keys 82a and 82b. The surface of the inputting device 144 is in this  
9 case flat but may be shaped to allow better access to keys and more comfortable  
10 inputting. Oval key module 170 is centered below key-surround inputting modules 132  
11 and 133 illustrated in part with key top and part without with underlying base part having  
12 a plurality of disbursed actuating contact points such as 172 which can be either  
13 capacitive or hard contact contact points. Oval key module 170 may also have a flexible  
14 tubular wall 171 which surrounds the entire key module in order to ameliorate the  
15 springing movement of the key module after it is stricken by the user. Key module 143 is  
16 of the same interior structure as that of key module 170 and shares similar structure.

17 Actuating constructs such as that of 172 may have the inputting circuitry for the same key  
18 value so that the user may press any part of said key module in order to input the same  
19 value. It is possible also to place more than one key-value to these actuating contact  
20 points which can either be capacitive or hard-contact contact points. All said keys may  
21 be of varying heights above surface 144, of various inclines and of varying textures to  
22 facilitate the user's reach and tactile identification. Additionally, key-surround modules  
23 132 and 133 are made to fit into such as points similar to 173 in order to save space and

1 better accommodate the user. In certain embodiments key-surround modules have dual  
2 washers beneath the base levels discussed above by which certain or all key-surround  
3 keys may be rotated with respect to other keys such as middle keys or other key-surround  
4 keys. Such washers such as those depicted in Figure 3a, 25 and 27, Figure 3b, 36 and 39  
5 and Figure 3c 52 and 54 are attached beneath the relevant key-surround bases described  
6 above. In other embodiments the number of keys, key shapes and placements of the key-  
7 surround data input module keyboard inputting device will vary.

8 Figure 8 illustrates a system of tracks which is beneath the surface of the key-  
9 surround data input module keyboard inputting device, and specifically, beneath key-  
10 modulebases described above. Track surface 174 in this embodiment is divided into  
11 three groupings of eleven tracks: 175, 176, 177, 178 and 179 of the left grouping 180,  
12 181, 182, 183, 184 and 185 of the right grouping 186 with track 187 as the center  
13 grouping. Each of these tracks holds one nesting or key module.

14 Tracks 175, 176, 177, 178 and 179 of grouping 180 hold pegs 188, 189, 190, 191  
15 and 192 respectively. Each said peg, identical to that of Figure 4, 63, connects key-  
16 surround module bases represented as 197, 198, 199, 200 and 201 to peg supports. Peg  
17 supports 202, 203, 204, 205 and 206 slide tightly against the back of surface 174 with  
18 said pegs in tracks in order to anchor the pegs such that the key or nesting modules  
19 attached to said pegs are secured against the key-surround inputting device.

20 Tracks 181, 182, 183, 184 and 185 of grouping 186 hold pegs 192, 193, 194, 195  
21 and 196 respectively. Each said peg, identical to that of Figure 4, 63, connects key-  
22 surround module bases represented as 207, 208, 209, 210 and 211. Peg supports 212,  
23 213, 214, 215 and 216 slide tightly against the back of surface 174 with said pegs in

1 tracks and anchor the pegs such that the key or nesting modules attached to said pegs are  
2 secured against the key-surround inputting device. In this case track 179 holds the  
3 nesting module having trackball and two nesting key-surround keys depicted as 218. The  
4 central track 187 holds peg 218 connecting base 220 to peg support 221 for in this case  
5 the oval key module. A similar system of tracks may be utilized beneath these tracks so  
6 that groups of key-modules or nesting modules may be positionally displaced in unison.

7 Figure 9, labeled as “prior art” is a top view illustration of a conventional Qwerty  
8 inputting device having keys with key-values placed in the “Qwerty” scheme of key-  
9 value placement. This is a conventional Qwerty keyboard with regard to the key  
10 placement relationships of keys depicted with key-values. Keys without values such as  
11 223, 224 and 225 can on different Qwerty keyboards have different key-values and  
12 Figure 9 illustrates these key-values as the minimum of Qwerty key-values. Key 226  
13 represents the “Space” bar or key. Key-values of this keyboard may be inputted by the  
14 key-surround module inputting device whilst maintaining the positioning and the  
15 relationship among and between key-values. The keys of the Qwerty keyboard are  
16 included within this specification not to limit the applicability of the Key-Surround  
17 Module inputting device. Rather, it is offered to suggest an applicability of certain  
18 embodiments of the Key-Surround Module inputting device.

19 Figure 10, illustrates an LCD diode-illuminated matrix display screen overlaid  
20 by a touch screen. Other kinds of displays and touch screen combinations may also be  
21 utilized without altering the spirit of the invention.

22 Figure 10 illustrates the touch sensitive touch screen display of this  
23 embodiment having an LCD matrix display depicting key-surround modules as a

1 graphical user interface and a touch screen overlay. The depictions of key-surround  
2 modules 227, 228, 229, 230, 231, 232, 233, 234, 235 and single key-modules 236 and  
3 237 serve in this touch sensitive touch screen embodiment of the key-surround data input  
4 keyboard inputting device as a graphical user interface. Graphical user interfaces are  
5 screen depictions which bring forth an action with the user's, in this case touch,  
6 interaction.. Figure 10 is divided into two halves separated at dotted line 238 for  
7 convenience. To the right of line 238 at 254 is an illustration of the touch sensitive touch  
8 screen displayas it would be seen by the user. To the left of line 238 is an illustration of  
9 the touch sensitive touch screen displaywhichis mounted on top of said LCD matrix  
10 display. This left side illustrates disproportionately enlargedtouch sensing elements  
11 which are actually unseen conductive circuits which detect current changes at points of  
12 the user's touch. Differing diagonal and crossed lines distinguish the different parts of the  
13 graphical user interface key-modules. When the user touches the touch screen, the point  
14 of touch is processed in respect to its coordinates on the touch screen and with respect to  
15 the corresponding point coordinates of the LCD matrix display directly underneath and of  
16 identical surface area.

17 Looking at the right of line 238 of the display, key-surround modules 231, 232,  
18 233 and 234 are seen depicted with middle keys 238, 239, 240 and 241 in a concave  
19 curved alignment. This curvature is unique to this particular embodiment and need not  
20 be present in others. Middle key 238 is displayed nested within a circular concentric first  
21 key-surround 242, a second key-surround 243 is amorphously shaped and partially  
22 surrounds said first surround key. Third key surround 244 is displayed to surround said  
23 second key-surround key together depicting the key-surround module 231. The key-

1 surrounds and the middle key, as with other keys in this embodiment, need not be circular  
2 nor concentric. Adjacent key-surround module 232 has middle key 239, oval shaped first  
3 key-surround 245 which surrounds, however only in part, said first key-surround key.  
4 Third key-surround key 247 is displayed to partly surround said second key-surround  
5 key. Key-surround module 233 is depicted to have a middle key 240, oval shaped first  
6 key-surround key 248 which surrounds said middle key, crescent shaped second key  
7 surround 249 which in turn surrounds, however only in part, said second key-surround  
8 key. The second and third key-surround keys are not concentrically depicted with regard  
9 to said middle key. Key surround 234 is depicted to have a circular middle key 241  
10 nested within a circular key surround first key-surround key. A second amorphous key-  
11 surround key 252 is depicted to partially surround said first key-surround key. Centered  
12 below these four displayed key-surround modules 231, 232, 233 and 234 is displayed  
13 oval key module 237. Background 254 is displayed to surround all said displayed keys.

14 On the left of dotted line 238 of Figure 10 this display embodiment is shown to  
15 have embedded touch sensing elements within its display screen at each of the key  
16 depictions of said display inputting device. Touch sensing elements are conductive  
17 circuit elements and are embedded within the display panel in this particular  
18 embodiment. The display may be of a liquid crystal display or other conductive yet  
19 illuminated display. This in turn partly surrounded by third key-surround key 266  
20 divided into two areas of touch.

21 Key-surround module 227 is displayed with circular middle key 255. Said middle  
22 key has one circular area of circuit elements for the detection of touch. The first key-  
23 surround key which surrounds middle key 255 has six divisions 258, 260, 261, 262, 263

1 and 264. This key-surround key is surrounded by amorphous second key-surround key  
2 265 with, in this case, five areas of circuit embededness. This in turn partly surrounded  
3 by third key-surround key 266 divided into two areas of touch circuitry. The adjacent  
4 key-surround module 228 has a middle key display entirely dispersed with touch circuits.  
5 Said middle key is surrounded by first key-surround key that has two areas 267 and 267a  
6 which are separately embedded with touch sensing circuits. Said middle key is  
7 surrounded by first key-surround key that has two areas 267 and 267a which are  
8 separately embedded with touch sensing circuits. Second key-surround key 268 is  
9 embedded with one area of circuits and is displayed as partly surrounding first key-  
10 surround key. Third key-surround key 269 partly surrounds 268 is also entirely  
11 embedded with one area of touch circuits. Next adjacent key-surround key 299 has a  
12 circular middle key the whole of which is embedded with one touch circuit area. This  
13 middle key is completely surrounded by an oval display first key-surround key which has  
14 two areas of embededness 270 and 270a, such that two key-values may be detected in  
15 these two areas of the same key-surround key. The second key-surround key 271  
16 partially surrounds said first key-surround. Third key-surround key 271 partially  
17 surrounds said second key-surround key, and is likewise completely embedded with one  
18 area of touch sensing. Key-surround module 230 has a display middle key 258 which  
19 consists of one circular area of touch. This middle key is surrounded by a first circular  
20 area key-surround key with several different areas of embedded touch circuits 273, 274,  
21 275, 276 and 277 where each separate detection area olds a different key-value, The  
22 second key-surround key 278 of this display module partially surrounds said first key-

1 surround and has two separate areas of embededness. Third touch key-surround key 279  
2 is also divided into two areas of touch.

3 Below said four touch key-surround molecules 227, 228, 229, 230 is displayed a  
4 touch nesting module 235 with a circular display cursor navigating center 280 having  
5 touch circuitry which can detect movements of touch or changing positions of touch.  
6 This middle key is surrounded by first touch circular key-surround key 281 having four  
7 areas of touch circuitry, in turn completely surrounded by a second touch key-surround  
8 key having five areas of touch circuitry. Displayed beneath and centered between key-  
9 surround modules 230 and 231 is an oval area 236 having one area of touch sensing  
10 circuitry. Displayed beneath and centered between key-surround modules 230 and 231 is  
11 an oval area 236 having one area of touch sensing circuitry. Background 283 can be  
12 without any touch circuitry, may have circuitry which has a very low touch sensitivity, or  
13 it may have higher touch sensitivity possibly to alert the user if she is inputting out of key  
14 bounds.

15 Said touch key shapes are unique to this particular embodiment and may be varied  
16 in other embodiments. For example some keys which are described as circular may be of  
17 other shapes. Also, borders of touch keys are outlined to show boundaries of display  
18 keys however they need not be used in their embodiments, for example different areas of  
19 key sensitivity may be in different colors or brightness in juxtaposition to other touch key  
20 areas. And whereas a plurality of key-surround key has been described in this  
21 embodiment of the key-surround module inputting device, another embodiment of the  
22 inputting device may have only one key module. Also the number of key-surrounds need  
23 not be as high nor be limited in number as those described in this embodiment.

1                    Secondly, the area to the left of dotted line 238 may also be described as  
2 being solely a touch screen layer with display shapes illuminating through and  
3 highlighting touch sensitive areas. With such an interpretation, Figure 10 also serves as  
4 an illustration of two parts of a touch screen display system illustrating the display screen  
5 in half of the illustration to the right of dotted line 238, and the rest of same display  
6 screen, the left half covered by a separate touch screen area. Thus, a second such  
7 embodiment may be described having a touch screen which covers a separate display  
8 underneath.

9                    Figure 11 is divided into two halves separated at dotted line 287 at 300  
10 illustrating a touch sensitive touch screen display having an LCD matrix display and a  
11 touch screen. The illustration to the right of line 287 is the touch sensitive touch screen as  
12 it would be seen by the user. To the left of line 287 is an illustration of the key-surround  
13 inputting device display screen which depicts touch sensing elements which are built into  
14 the display regions or areas. The touch sensing elements are enlarged to show detail.

15                    Looking at the right of line 287 of the display, key-surround modules 286 is  
16 depicted with middle keys 292, 293, 294 and 295 in concave curved alignment. This  
17 curvature is unique to this particular embodiment and said keys may be of different  
18 alignment in other embodiments. Also, in other embodiments this number of middle  
19 keys and the number of key-surround modules can differ. Surrounding these middle keys  
20 is a key-surround key 296 which follows the curvature of said middle keys and entirely  
21 surrounds them. This first key-surround display key is surrounded in part by a second  
22 key-surround key 297 and is depicted to partially surround said first key-surround key. A  
23 third key-surround key 298 partially surrounds said second key-surround key. Below this



1 display key-surround module 286 is, in this case, an oval display key module 299 and  
2 surrounding these modules is background 300.

3 To the left of line 287 the illustration shows the touch sensing areas of the present  
4 embodiment of the touch key-surround module inputting device. With regard to the  
5 depiction of key-surround module 285, depicted middle key areas 288, 289, 390 and 291  
6 are completely embedded with single circular areas of touch. These keys are surrounded  
7 by a first touch key-surround key which has a plurality of spaces which are separately  
8 embedded with touch sensing elements. Second display key-surround 302 surrounds said  
9 first key-surround key and has a plurality in this case six area of touch sensing elements  
10 to that each area may be given a different touch key-value. The third touch key-surround  
11 key 303 surrounds partially said second display key-surround key. In between said  
12 middle keys are three display areas 304, 304a and 304b which like background 311 can  
13 be of either low touch sensitivity or high touch sensitivity depending on the benefit to the  
14 user. Below said touch module 285 is nesting module 305 which has as its middle key a  
15 cursor navigating touch key 306 having a circular area of touch sensing which can detect  
16 movement of the user's touch or changes in placement of touch. This middle key has a  
17 first key-surround key 307 which is circular and has four areas of touch. A second  
18 display key-surround key is divided into five areas of touch and which surrounds said  
19 first key-surround key completely. Below and centered between display modules 285  
20 and 286 is depicted touch key module 309 having one area which is embedded with one  
21 area of touch sensing.

22 Said touch key shapes are unique to this particular embodiment and may be varied  
23 in other embodiments. Keys in other embodiments may be of different shapes than those

1 illustrated. The illustrated borders of touch key are outlined to show boundaries of keys  
2 however they need not be used in other embodiments, for example different areas of key  
3 sensitivity may be in different colors or brightnesses in juxtaposition to other touch key  
4 areas. And whereas a plurality of keys-surround keys has been described in this  
5 embodiment of the key-surround module inputting device, another embodiment of the  
6 inputting divide may have only one key module. Also the number of key-surrounds need  
7 not be as many nor be limited in number as those described in this illustration.

8 Secondly, the area to the left of dotted line 287 may also be described as being  
9 solely a touch screen layer with display shapes illuminating through and highlighting  
10 touch sensitive areas. With such interpretation, Figure 11 also serves as an illustration of  
11 two parts of a touch screen display system illustrating the display screen in half of the  
12 illustration to the right of dotted line 287, and the rest of same display screen, that which  
13 is to the left, covered by a separate touch screen. Thus, a second such embodiment may  
14 be described having a touch screen which covers a separate display underneath.

15 Figure 12 illustrates a top view of the key-surround data input module keyboard  
16 inputting device which may apply to various embodiments of the inputting device.

17 Figure 12 depicts a top view which has applicability to various embodiments of  
18 the key-surround data input module keyboard inputting device. The key-surround data  
19 input module keyboard inputting device of Figure 12 contains key-values of the  
20 conventional Qwerty keyboard placed so that Qwerty key relationships and positions are  
21 maintained. Qwertyinputting can be achieved on the smaller surface area of the key-  
22 surround data input module keyboard inputting device. The key-surround module  
23 inputting device of Figure 12 contains key-values of the conventional Qwerty keyboard

1 placed so that Qwerty key relationships and positions are maintained while such key-  
2 values and inputting can be achieved on the smaller surface area of the key-surround  
3 module inputting device. Key-surround module 312 has the key-value for "A" at its  
4 middle key, a first key-surround key having the key-values for "Q", "Capslock" and "A",  
5 and, a second key-surround key having the key-values for "!", "1", "Esc", "Shift", "Fn"  
6 and "Ctrl". Key surround module 313 has the key-value for "S" as its middle key, a first  
7 key-surround key having the key-values for "W" and "X", and, a second key-surround  
8 key having the key-values for "@", "2" and "Tab". Key surround module 314 has the  
9 key-value for "D" at its middle key, a first key-surround key having key-values for "E"  
10 and "C", and, a second key-surround key having key-values for "#", "3" and  
11 "NumLock". Key surround module 315 has the key-value for "F" at its middle key, a  
12 first key-surround key having the key-values for "R", "T", "G", "B" and "V", and, a  
13 second key-surround key having the key-values for "\$", "4", "%", and "5". Key  
14 surround module 316 has the key-value for "J" at its middle key, a first key-surround key  
15 having the key-values for "U", "Y", "H", "N" and "M", and, a second key surround key  
16 having the key-values for "Backspace", "^", "6", "&", "7" and "Ins". Key surround  
17 module 317 has the key-value for "K" at its middle key, a first key-surround key having  
18 the key-values for "I", "<", and ",", and, a second key-surround key having the key-  
19 values for "\*", "8" and "Alt". Key surround module 318 has the key-value for "L" at its  
20 middle key, a first key-surround key having the key-values for "O", ">", ".", and, a  
21 second key-surround key having the key-values for "(", "9" and "Del". Key surround  
22 module 319 has the key-value for ":" at its middle key, a first key-surround key having  
23 the key-values for "Ctrl", "P", "[", "]", "'", "", "?", and "/", and, a second key-surround

1 key having the key-values for “)”, “0” “+”, “=” and “Shift”. In other embodiments the  
2 placements of key-values may be re-arranged to best suit the convenience of the user.  
3 Key-module 322 has the key-value for “Space”, also a frequently inputted Qwerty key-  
4 value, placed for easy reach by the user. It is possible in another embodiment to include  
5 such enlarged key modules with key-values such as for “Esc”, “Backspace”. “Shift”,  
6 “Alt”, “Ctrl” or other frequently used key-values in easily accessible locations on the  
7 key-surround module inputting device. Nesting module 322 has the key-value for a  
8 cursor navigating device at its center and other directional and click key-values at its  
9 surround keys for related and easy access for the user. This embodiment of the key-  
10 surround inputting device is only one embodiment of keyboard key-surround module  
11 inputting. Other embodiments of the key surround inputting device may include  
12 Stenograph™ key key-values and musical instrument key key-values. In an alternate  
13 embodiment the key-values found in Figure 12 could be adapted to a touch sensitive  
14 touch screen display embodiment.

15 It will be understood that each of the elements described above, or two or more  
16 together, may also find a useful application in other types of constructions differing from  
17 the types described above. And while the invention has been described and illustrated as  
18 embodies in inputting devices, it is not intended to be limited to the details shown, since  
19 various modifications and structural changes may be made without departing in any way  
20 from the spirit of the present invention.

21 Without further analysis, the foregoing will so fully reveal the essence of the present  
22 invention that others can, by applying current knowledge, readily adapt it for various

1 applications without omitting features that, from the standpoint of prior art, fairly  
2 constitutes essential characteristics of generic or specific aspects of this invention.  
3 What is claimed as new and desired to be protected by Letters Patent is set forth in the  
4 appended Claims.  
5